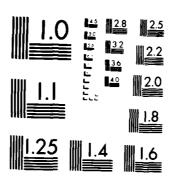
SIMULATION OF CRITICAL MATERIALS RESOURCE STRATEGIES
VOLUME 1 APPENDIX D. (U) TITAN SYSTEMS INC LA JOLLA CA
D SOMERFELD 13 SEP 83 TITAN-DSI-105800-07-83-5F-1-D
EMM-C-0906 F/G 15/5 AD-A150 259 1/2 UNCLASSIFIED NL



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DECISION SCIENCE

a division of TITAN SYSTEMS, INC.



TITAN-DSI-105800-07-83-5F

SIMULATION OF CRITICAL MATERIALS RESOURCE STRATEGIES

AD-A150 259

APPENDIX D - DATA BASE VOLUME 1 THROUGH SCENARIO 11

FINAL REPORT

CONTRACT EMW-C-0906

ARTICLE III A

Submitted to:

Mr. Michael Pfetsch

FEMA

Program Manager

Donohoe Building, Room 617

500 "C" Street, S.W.

Washington, D.C. 20472

September 13, 1983



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9191 Towne Centre Drive (La Jolla Gateway) Suite 500 San Diego, California 92122 (619) 453-9500 postal address: P.O. Box 12139 La Jolla, California 92037

TITAN SYSTEMS, INC.

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)					
This report addresses preliminary efforts to qua	nti¶y strategic relationships				
of materials to force elements.					
The results of the prelipinary materials are eme	rgency but requires further				
model development.					
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- 28 TANZANIA
- 29 BOLIVIA
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- 31 PRO
- 32 MALAYSIA

LIST OF COMMODITIES BY NUMBER

- 1 COBALT
- 2 TIN
- 3 NICKEL
- 4 FLUORSPAR ACID
- 5 PYRETHRUM

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REGIONS BY MEDIA

MEDIA 1 LAND

- 1 NORTH AMERICA
- 2 EUROPE
- 3 REPUBLIC OF KOREA/JAPAN
- 4 S.E. ASIAZAUSTZNEW ZZALAND
- 5 MIDDLE EAST
- 6 THIRD WORLD
- 7 SOVIET UNION
- 8 WARSAW FACT
- 9 SOUTH AMERICA
- 10" CENTRAL AMERICA

MEDIA 2 AIR

- 1 N. AMERICAZW. ATLANZCARIB.
- 2 EUROPE/MEDITERRANEAN
- 3 NORTH ATLANTIC
- 4 SOVIET UNION
- 5 N.E. ASIA/(KOREA/JAPAN)
- 6 S.E. ASTA/AUST/NEW ZEALAND
- 7 THIRD WORLD
- 8 WARSAN PACT
- 9 MIDDLE EAST
- 10 SOUTH AMERICA
- 11 CENTRAL AMERICA

MEDIA 3 SEA

- 1 WEST ATLANTIC/CARIEBEAN
- 2 N.E. PACIFIC(HAWAII/ALASKA)
- 3 N. ATLANTIC/MEDITERRANEAN
- 4 PERSIAN GULF/INDIAN OCEAN
- 5 N.W. PACIFIC(KOREA/JAPAN)
- 6 S. E. ASIA/AUST/NEW ZEALAND
- 7 SOUTH ATLANTIC

MEDIA 4 SPACE

- 1 LOW-ALTITUDE
- 2 MID-ALTITUDE
- 3 SYNCHRONOUS
- 4 SUPER SYNCHRONOUS

LEGEND SOURCE DEFINITIONS BY MEDIA AND REGION

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. 5 ZAMETA	LANI	
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9 NEW CALEDONIA	LAND	
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√6 MEXICO	LAND	
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	SEA	
		N.E. PACIFIC(HAWAII/ALASKA)

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		SEA	N. ATLANTIC/MEDITERRANGAN
÷	FRG	LAND	EUROPE
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·3	GUATAMALA	LAND	CENTRAL AMERICA
		AIR	CENTRAL AMERICA
		SEA	N.E. PACIFIC(HAGAIT/ALASKA)
:4	INDONESIA	LAND	S. E. ASIA/AUST/NEW ZEALAND
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	BAHZIL		SOUTH AMERICA
		AlR SEA	SOUTH ATLANTIC
. 1	PRC	LAND	S. E. ASIA/AUST/NEW ZEALANI
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ŀ		AIR	S. E. ASIA/AUST/NEW ZEALAND
		HILL	
ļ.		SEA	N.E. ASIA/(KOREA/JAPAN) PERSIAN GULF/INDIAN OCEAN
		SEM	N.W. PACIFIC(KOREA/JAPAN)
32	MALAYSIA	LANT	
-	- UNERTOXP	LAND AIR	S.E. ASIA/AUST/NEW ZEALAND S.E. ASIA/AUST/NEW ZEALAND
		SEA	S.E. ASIA/AUST/NEW ZEALAND
		SEM	S. E. HOTH/HODI/NEW ZERLAND

SCENARIO 1
BASELINE

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WEIGHTS on REGION by LEVEL of CONFLICT and MEIIA
                   Level of Conflict 3 Madia 1
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          10.0
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                   Level of Conflict & Media 2
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|I_#CÔEF 0.1333 0.1333 0.1230 0.0533 0.0933 0.0847 0.0133 0.1067 0.0933 0.0647
   GEF 0.1200
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"I...DEF 0.1786 0.1786 0.1786 0.1412 0.1071 0.0714 0.14∷3
                   Level of Conflict 3 Media 4
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          10.0
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Weight
1/COEF 0.5882 0 2353 0.1176 0.0588
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its own Media
Mr Cia
 Esgron
 IMCOBF 0.0228 0.0228 0.0160 0.0114 0.0160 0.0046 0.0046 0.0114 0.0046 0.0137
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Region
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/I/LOEF 0 0154
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Media 4
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Importance of controlling ANY Region
rw: hin its Media as compared to the Importance
 or controlling ANY Region of any other Media
Media
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F1<sub>6</sub> Def 0,0099 0,0099 0,0070 0,0050 0,0070 0,0020 0,0020 0,0050 0,0050 0,0020 0 0060
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Media 11
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-1/COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
11/00EF 0.0033
Media 3
 Region
   DOEF 0.0060 0.0060 0.0060 0.0043 0.0036 0.0024 0.0048
Media
Region
 I/COEF 0.0065 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT C	ALCULATED	NOFMALIZED
RAMIING	NUMBER	NAME	VALUE	VALUE
1	17	CAPPIER PATTLE GROUP	0 141	10.000
2	1	AIR INTERLIGTION	0 117	8-263
3	3	ARMY GREUND	0.104	7.382
4	14	ATTACK SUDE	0. 07 2	5. 135
5	19	SURFACE COMBATANTS	0, 060	4 249
6	12	THEATER NUBLEAR WEAFOR	0 054	3 813
_ 콧	ê e	PARID DEPLOY	0.052	3 701
`B	6	CAS	0 044	3 131
5	14	ASW(LAND PASED)	0.043	
10	<u> </u>	AIR BURERIORITY(LAND DAY	ED) 0.041	
11		ASW(SEA BASED)	0.033	
12		AIR SWHERIORITY (SHIP FA)		
13	21	AIR DEFENSE (SHIP BASED)	0.029	
1.5	10	STRATEGIC BOMIFR	0.025	
1 🖺	25	SPOE BASED WEAPORIAIR ON	(TEL)0 020	
1 €	119	ABAT(BRACE BASED)	0.013	Q. 924
17	1ुंची	MINE WARFARE	0.013	0.891
18	-	AMPHIBIOUS ASSAULT	0 011	
) 🖭	13	SPECIAL OPERATIONS	0.010	0.725
20	28	ABAT (LAND BABED)	0.007	
21	y m a . daa . a	AIR DEFENSE (LAND BASED)		
22	\$	SPRE-BASES WEARDNILMS ON		
	30	SFOR BASED WEARON(SEA CN		
<u>. 4</u>	27	ARM(SPACE RASED)	0.000	
<u> </u>		ABM(LAND DABED)	Q . Q QQ	
<u>26</u>	24	INTERCERTOR ALACRAFT	0,000	
27	11	SLEM	0, 000	•
28	7	IOPM	0.000	
27	5	CIVIL DEFENSE	0.000	
30	4	CEW	0, 000	0.000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5, 71
ARMY GROUND	4.52
CAS	1, 75
ICBM	0.00
STRATEGIC BOMBER	1. 79
SLBM	0.00
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10, 00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2. 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0. 51
	34 99

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AIR INTERDICTION	కృ కృ
ARMY GROUND	1, 92
CAS	1, 91
STRATEGIC BOMBER	1 7%
ABW(LAND PASEI)	3. 09
ASW(SEA BASED)	1 11
ATTACK SUBS	5 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0, 8%
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 13
INTERCEPTOR AIRCRAFT	0.00
ABM:LANI BASED:	O OO
	41 18

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PYRETHRUM

AIR INTERLICTION		ARMY GROUND	2 68	
ARMY GROUND	4 92	CIVIL DEFENSE	Q = QQ	
CAS	1.72	ASW(SEA BASED)	5 14	
STAATEGIC POMSER	1.79	CARRIER BATTLE GROUP	10.00	
ASW(SEA PASED)	1.71	SURFACE COMBATANTS	4 23	
ATTACK SUBS	5.13			
CARFIER BATTLE GROUP	10,00		17 09	
MINE WARFARE	0, 89		• • •	
BURFACE COMBATANTS	4, 25			
AIR SUPERIORITY(LAND BASED)	2 91			
AIR SUPERIORITY(SHIP BASED)	2 28		IMPORTANCE	
INTERCEPTOR AIRCRAFT	Q, QQ	NICKEL	10.00	(4) 7 1
		TIN	Contraction	(A ' '
	41, 21	FLUORSPAR ACID	9 60	(ବୁଦ ଶ୍ରିଲ
		COBALT	8.49	(94 9-)
		FYFETHRUM	4 14	(17 0)

FLUGRBEAR ACID

AIR INTERDICTION	7.15
AMPHIBIOUS ASSAULT	0.76
ARMY GROUND	3.79
CAS	2 05
ICBM	0.00
STRATEGIC BOMBER	1 79
SLBM	0.00
ASW(LAND BASED)	3.08
ASW(SEA BASED)	1 47
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2.91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ABM(LANDEBABED)	0.00
	00.87

		1 .
•		NORMALIZED VALUE: F-111
COBALT		F-16
A-10	CAE	71 7334 314
COBRA -	CAS	48 4891/44
F-4	AIR INTERDICTION	103 5050 <u>-</u> 1 ₁₈
	CAS	7. 2734เพ
F-16	AIR INTERDICTION	71.878 데 /
	CAS	40. 4075 = 15
ART ACRET		9 494 7 3-901
RADIO RLAY	AIR INTERDICTION	3. 23454-7
_	CAS	2. 7275 OFFA
F-111	AIR INTERDICTION	127. 3913 4-27M-3
A-6	_	38.8144=14
	AIR INTERDICTION	57, 5028 ₃₋₂
4-7 ■ F-14	AIR INTERDICTION AIR INTERDICTION	43 11 1 MORTERS
	AIR INTERDICTION	71.87898ELF-PROP.
	ASW(SEA BASED)	6 97 Table - PROP.
	ASK(SEA BASED)	15 1937 SLOME
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	ASW(SEA BASED)	24. 7284 ATT, SUBS
ATT SUBS	ASW(SEA BASED)	24. 1169bulzat
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	ARMY GROUND	61.0182 pp redated
	ARMY GROUND	67. 7980] (STROVERS
M-551	ARMY GROUND ARMY GROUND	O. 2260 INFAUTRY
M~901	AFMY GROUND	54. 2384 EH-3
M-2/M-3	ARMY GROUND	47 4586 RADIO RLAY
M-113	ARMY GROUND	5. 2732 4-113
MLRS	ARMY GROUND	20. 3394 ART. ACRET
	ARMY GROUND	27. 1192 ROLES LNCH
	ARMY GROUND	36 158° K-551
PERSHING	· · · · · · · · · · · · · · · · · · ·	18. 0795
	ARMY GROUND	30, 1324
	ARMY GROUND	7. 5331 34. 9122
, MORTERS . BOLES LNOW	ARMY GROUND ARMY GROUND	1. 5820
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1 1

72, 7933 64 6511 NORMALIZED VALUES 103.5050 =-111 7. 2734 =-16 F-4 71 8785 =-19 40 4075 3.6367 A-10 3. 2345 DOBRA 2. 7275 INFANTRY --15 128, 3813 43, 6662 =-14 57, 5028 4-6 51, 7525 7-1 48, 5180 8-3 80,8633 5. 2093 SECMS \circ 13. 0231 SH-605 20 2582 FERSHINA 34 7284 FRIGATES 1 115 14. 4701 ATT. SUBS 1 0 1 14. 4701 SH-2 8. 6821 MLRS 4 2185 DISTROYERS 6 7798 M-2/M-3 37. 6655 M-901 M-60 0.0753 6. 7798 BELF-PROF. 6. 7798 RADIO RLAY MORTERS 0. 7533 10. 1697 SH-3 4. 5199 TOWED ART. 6. 0265 M-48 15. 8195 ART. ACRET 26.3659 M-113 0. 053. 60. 2649 FOLES LNCH 0.017 M-551 0.00055, 2732 0.2260

NICKEL_-CAB A-10 CAS COBRA AIR INTERDICTION CAS AIR INTERDICTION CAS ART. ACRET CAS RADIO RLAY AIR INTERDICTION CAS AIR INTERDICTION F-111 A-6 AIR INTERDICTION AIR INTERDICTION F-15 A-7 AIR INTERDICTION F-14 AIR INTERDICTION AIR INTERDICTION F-18 2H-3 ASK(SEA BASED) ASW(SEA BASED) SH-2 SH-GOP ASW(SEA BASED) 9-3 ASW(SEA BASED) ATT. SUBB. ASW(SEA BASEI) FRIGATES ASW(SEA BASED) ASW(SEA BASED) DISTROYERS AFMY GROUND M-48 ARMY GROUND M-60 ARMY GROUND M-1 M - 551ARMY GROUND M-901 ARMY GROUND M-2/M-3 ARMY GROUND M-113 ARMY GROUND ARMY GROUND MLRS TOWER ART. ARMY GROUND SELF-PROF. ARMY GROUND PERSHING ARMY GROUND GLCMS. ARMY GROUND INFANTRY ARMY GROUND MORTERS ARMY GROUND RCLES LNCH ARMY GROUND

72, 7336 48 4891 NORMALIZED VALUES 77 6288 F-111 10° C 8 6T 5. 4550 F-16. 71, 8785 7-4 40, 4075 F-18 2. 4245 M-1 3, 23/5 A-10 E 25 1 2, 7275 14-60 129. 3819 F-15 38. 8144 M-2/M-3 4 1-1 57. 5028 4-7 4 0. -14 51, 7525 48.5186 COBFA 80. 8633 | BELF-PFOF. 6,9457 M-901 3 6 1 17. 3642 ATT. SUBS. 27. 0109 M-48 3 351. 3 2011 34 7294 A-6 43 4104 INFANTRY $\mathbb{E}_{\mathbb{R}}[Q_{i}] \in \mathbb{R}^{n}$ 2. 911 2 794 26.0463 TOWED ART. 2 034. 15 6278 6-3 2 087 42.1854 BH-60P 2 012 67 7980 FRIGATES 75. 3311 34CMS 0. 7533 MLRS 47. 4586 ERSHING 1 7-2 1 571 1.307. 54, 2394 SH-2 1 5 2732 MORTERS 1 20. 3394 DSTROYERS 0.536 36, 1589 SH-3 0 400 48. 2119 RADIO RLAY (Z -18. 0795 M-113 0.151 22,5993 ART. ACRET O. 053. 37. 6655 11-551 15. 8195 ROLER LNOH 0, 0175 0.2260

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A-10	CAS
COBRA	CAS
F-4	AIR INTERDICTION
	CAB
F-16	AIR INTERDICTION
	CAS
ART. ACRET	CAS
RADIO RLAY	AIR INTERDICTION
	CAS
F-111	AIF INTERDICTION
A~6	AIR INTERDICTION
F~15	AIR INTERDICTION
A-7	AIS INTERPICTION
F-14	AIR INTERDICTION
F-18	AIR INTERDICTION
SH-3	ASK(SEA BASED)
S4-2	ASW(SEA BASED)
SH-60B	ASW(SEA BASED)
8-3	ASW(SEA BASED)
ATT, SUES	ASW(SEA BASED)
FRIGATES	ASU(SEA BATED)
DSTROYERS	ASW(SEA BASED)
M-48	ARMY GROUND
M-60	ARMY GROUND
M-1	ARMY GROUND
M-551	ARMY GROUND
M-901	ARMY GROUND
M-2/M-3	ARMY GROUND
M-113	ARMY GROUND
MLRS	ARMY GROUND
TOWED ART.	ARMY GROUND
SELF-FROF	ARMY GROUND
PERSHING	AFMY GROUND
GLOMS	ARMY GROUND
INFANTRY	ARMY GROUND ARMY GROUND
MORTERS.	ARMY GROUND
BOLES INCH	ACMV COCHNO

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90 9170	WORMALIZED VA	ALUE:	
	F-111	10	Q D
	-16		:
9, 0017	4	2:	El cara
ଞ୍ଚ ଅୟସୀ			621
50 5094			٠
3, 6367	F-15		47
3, 2345	Ĥ-7	4 .	(). 71
2. 727회	INFANTRY	3.	72
161, 7266	M-2/M-3	3.	3537
48, 5180	M-901	3	95. 3331
71, 8785	F-14	ଅବସ୍ଥାୟ ସ	3230
64. 6906	4-6	3.	Q1
53 YOSH	COBRA	2	5.5 E.
89, 8491	맞는걸	2	6.5
6. 9457	SH-60B	2	OET.
17, 3642	SELF-PROP.		36
33, 7637	ATT, SUBS		729.
43, 4104	MORTERS	1	é.
28, 9403	GLCMS	1.	
20, 2592	TOWED ART	1.	
12, 1549	M-1	1.	
12 8558	M-60	1	
20, 3394	FRIGATES	1	25.2
22, 5993	SH-2	1	477
0, 2260	MLRS	1.	
	PERSHING	Ġ.	
54, 2334		Q.	
	DETROYERS	Q.	
16, 9495			4.
22, 5993	M-113		37.
30, 1324	RADIO RLAY		363
15, 8195	ART. ACRET		224
26 3659	ROLES LNOH	φ 0	014 014
60, 2649		O	Q13
26, 3659			
0, 2260			

PYRETHRUM

ATT. SUES ASW(SEA PASEI) ARMY GROUND M-48 ARMY GROUND M-60 M-113 ARMY GROUND ARMY GROUND TOWED ART. SELF-PROP. ARMY GROUND INFANTRY ARMY GROUND MORTERS ARMY GROUND

14. 4701 29. 5198 47. 4596 5. 2731 31. 6390 42. 1954 75. 3311 36. 4120

NORMALIZED VALUES

INFARTRY 10,0000 M-60 6.3000 SELF-PROP. 5, 6000 4. 9000 MORTERS TOWED ART. 4 2000 M-48 3, 9200 ATT. SUBS 1, 9209 M-113 9.7000

HEE COMMON	71 + 1E.5
A-10	CAS
COBRA	CAS
F-4	AIR INTERDICTION
	CAS
F-16	AIR INTERDICTION
	CAE
ART ACRET	CAS
RADIU RLAY	AIR INTERDICTION
	CAS
F-111	AIR INTERDICTION
A-6	AIR INTERDICTION
F-15	AIR INTERDICTION
A-7	AIR INTERDICTION
F-14	AIR INTERPICTION
F-18	AIR INTERDICTION
84-3	ASW(SEA BASED)
SH-2	ABW(SEA BABED)
SH-&OB	ASW(SEA BASED)
8-3	ASW(SEA BASED)
ATT SUPS	ASW(SEA BASED)
FFT 34TES	ASW(SEA BABED)
IT RINERS	ASW(SEA BASED)
1-42	ARMY GROUND
M-60	ARMY GROUND
M-1	ARMY GROUND
M-551	ARMY GROUND
M-901	ARMY GROUND
M-2/M-3	ARMY GROUND
M-113	ARMY GROUND
MLRE	ARMY GROUND
TOWED ART.	ARMY GROUND
SELF-PROP.	ARMY GROUND
PERSHING	ARMY GROUND
GLCMS	
INFANTRY	ARMY GROUND ARMY GROUND
MUKIEKS	ARMY GRUUND
ROLES LNOH	ARMY GROUND

3.	0912		
2.		MORMALIZED VALUES	
4		₩ -111	13 003
Ö.		F-14	ક હેે.
		F-4	8.050
3.		F-18	토 남관
1.	7172	<u>≒-10</u>	5 621
O.		F-15	4. 4.
O.		INFANTRY	4 331
	1091	- -	4 (6)
Ξ.	4937	2-7 50553	
1.	6981	COBRA	3, 82°
	4439	M-1	3 611
2.	1995	1-60	2 6 2
1.	1995 9407	14	
3	2345	4 -6	S 08:
Ō.	1	PELF-PROP.	
	6295	11-2/M-3	2. 91°
1.		M-901	
1.		S~3	2. 684
		-48	2 41
1.		ATT. SUBS	2 25%
	7524	TOWED ART.	2 215
Q.		MORTERS	- -
1		SLCMS	1 + 1
	0339	SH-60B	1
2.	0339		
Ç	0128	FRIGATES	1 344
1	6272	PERSHING	1 233
1.	6272	MLRS	1.23
O.		5H-2	1 144
Ō.		DETROYERS	0.823
1.		BH-3	0.457
1.		RADIO RLAY	0.433
Ō.		M-113	O All
1.	0546	ART. ACRET	0 242
2.		POLES LNCH	O, CAI
٠.	41U0 0100	M-551	0.02.
	2128 0226	[
Q.	0226	5	

CRITICALITY OF SHORTFALL

ALL FE 9 (LOC 3)

		STOCK	SHORT		FE/		NORWAL TAET
J b1	G-741	FILE	FALL				FE
LOMMODITY	(2)(江下至)	(c) ITE)	C.				
FALT	85 4	43 8	-48 7	402.5	8 5	3418 1	→ ⊈
	42.0	190.6	353. E	Ο, Ο	10.0	0. 0	$\circ \circ$
CHEL	205.0	32 2	-83 9	497.7	10.0	4377.1	10.0
WORSPAR ACID	1400 O	895. 0	-35. 1	ଓଟ୍ର, ବ	9.6	3744 B	٤ 6
ETHRUM	5000 Q	Q Q	-100-0	453 8	4.1	1880.7	4 1

COMPOSITE IMPORTANCE (<u>100 P</u>)

COPALT

į.	A	97 55	makemat 175		
[i	AMOUNT	% OF	COMPOSITE	1.75.7	M(1/01)
URCE	SUFFLIED	TOTAL	IMPURTANCE	1/01	
LANI	1350.	6. 4 3	1, 92	0. 520	3,343
– 0000	45 0.	2 14	1. 50	0.667	1 427
TSWANNA	250.	1.19	0.71	1. 404	1, 671
TH AFFICA	150.	0.71	1 19	0.841	0 651
RE	12500	50.51	0.71	1 4 4	83 543
MBIA	35 00	16 67	0.71	1.404	23, 393
ITLIPPINES	50.	0. 24	0.92	1. 087	0.258
TRALIA	400	1.90	O. 92	1 087	2 973
CALEDONIA	250.	1.19	0. 92	1.087	1, 293
NALA	1100.	5, 24	2, 89	0.346	1 813
	1000.	4.76	2, 56	0. 391	1 ଟେଓ

TOTAL: 21000, 100,00

TOTAL: 67600. 100.00

COMPOSITE IMPORTANCE (LOC 3)

TIN

•	AMOUNT	% OF	COMPOSITE		
MRCE	SUPPLIED	TOTAL	IMPURTANCE	1/01	1.(1/51)
JSTRALIA	100.	0.15	0. 92	1.087	0 161
9	16100.	23, 82	2 56	O. 391	ନ ଓଡ଼େନ
LILAND	5 900.	8.7 2	0, 92	1, 087	9 4 93
MONESIA	5800.	8.58	0, 92	1, 087	9 322
(100.	0. 15	1, 96	0.510	0, 07.
IVIA	10300.	15, 24	0, 98	1. 020	15 543
DIZIL	2400.	3, 55	Q. 86	1. 162	4 125
kc .	3000	4. 44	2 47	0.405	1 796
AYSIA	23900.	35. 36	0. 92	1.087	GE 414
<u></u>					

COMPOSITE IMPORTANCE (LOC 3)

NICH EL

SAURCE FALAND SOUTH AFRICA APHILIPPINES AABTRALIA AABTRALIA AABADA	AMOUNT SUPPLISE :000. 5000. 5000. 25000. 150000. 88000.	% OF TCTAL 0 33 1.64 1 64 3.21 49.28 28.91	COMPOSITE 1MFUSTANCE 1 92 1 18 0.92 0.92 2.89 2.56	0. 520 0. 841 1. 087 1. 087 0. 346 0. 381	10 10 10 10 10 10 10 10 10 10 10 10 10 1
G'ECE N'IHERLANDS FRG YUSOSLAVIA USR FROM, REPUR GUATAMALA II JONESIA	600.	0 20	1, 96	0. 510	0, 101
	200.	0 07	1, 96	0. 510	0, 034
	100.	0 03	1, 96	0. 510	0, 017
	500	0 16	1, 98	0. 510	0, 084
	5000.	1 64	0, 94	1. 061	1, 742
	15000.	4 93	1, 53	0. 654	3, 130
	4000.	1 31	1, 53	0. 654	0, 811
	5000.	1 64	0, 92	1. 087	1, 785

TOTAL: 304400. 100.00

COMPOSITE IMPORTANCE (LOC 3)

FLUORSPAR ACID

SEURCE SOUTH AFRICA U.S ICALY SPAIN EAST AFRICA THAILAND MEXICO		AMOUNT SUPPLIED 180. 70. 65. 100. 25. 15. 350.	% OF TOTAL 22, 36 8, 70 8, 07 12, 42 3, 11 1, 86 43, 48	COMPOSITE IMFORTANCE 1, 19 2, 54 1, 96 1, 96 0, 71 0, 92 2, 56	1/01 0.841 0.391 0.510 0.510 1.404 1.087 0.391	%(1/01) 18 903 3 401 4 120 6 339 4 359 2,025 17,011
	TOTAL:	805.	100 00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

SOURCE S JTH AFRICA A STRALIA UK KENYA R ANDA THNIANIA		AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1. 01 0. 76 5. 57 40. 51 12. 66 39. 49	COMPOSITE IMPORTANCE 1. 19 0. 92 1. 96 0. 71 0. 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/61) 0.852 0.825 2.842 56.855 17.767 55.43
. 🔨	TOTAL:	197500.	100.00			

SOURCE IMPOFTANCE (LGC 3)

SOURCE	%(1,007) COMT IMP	FERSHOPTFALL OFIT1SALITY		VDFMALIZZT TG-101
BALT FINLAND MOROCCO BOTSWANNA SCUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3. 943 1. 429 1. 671 0. 611 93. 549 13. 993 0. 259 2. 070 1. 293 1. 813 1. 663	7.81 7.81 7.81 7.81 7.81 7.81 7.81 7.81	26, 11 11, 16 13, 05 4, 69 652, 43 192, 68 2, 02 16, 16 10, 10 14, 16 14, 55	4. 00 1 7: 2 00 0 7: 100 00 2: 0: 0 3: 1. 55 2 23
N AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA BSAZIL PRO MALAYSIA	0 161 9 319 9 483 9 831 0 075 15 548 4 129 1 783 88 414	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0 00 0 01 0 00 0 00 0 00 0 00 0 00 0 00
CKEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0. 171 1. 381 1. 785 8. 824 17. 054 11. 311 0. 101 0. 034 0. 017 0. 084 1. 742 3. 230 0. 861 1. 785	10, 00 10, 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	0, 05 0, 03 0 19 2 67 4 95 1, 32
UORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 - 3, 402 - 4, 120 - 6, 338 - 4, 359 - 2, 025 - 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	4, 46 5, 40 8, 31 5, 72 2, 65

 P! RETHRUM
 0.852
 4.20
 3.66
 0.56

 COUTH AFRICA
 0.852
 4.30
 3.55
 0.54

 UK
 2.842
 4.30
 12.21
 1.87

 KENYA
 56.855
 4.30
 244.10
 31.40

 RWANDA
 17.767
 4.30
 76.34
 11.70

 TANZANIA
 55.433
 4.30
 238.16
 36.51

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

SOURIE	COMMODITY	マラー 一直
ZAIRE	COBALI	100 00
KENYA	PYRETHKUM	37. 44
TANIANIA	FYRETHRUM	36 51
ZAMERA	COEKLT	ଅଞ୍ଚ ତ୍ରୁ
CANADA	NICKEL	26. 14
SOUTH AFRICA	FLUCKSMAR ACID	24. 65
MEXICO	FLUCESPAR ACID	22, 30
US	NICKEL	17. 34
AUSTRALIA	NICHEL	13, 68
RWANDA	FYRETHRUM	11, 70
SPAIN	FLUORSPAR ACID	8, 31
EAST AFRICA	FLUORISPAR ACID	5 72
ITALY	FLUORSPAR ACID	5,40
DOM REPUE	NICHEL	4, 95
US	FLUORSPAR ACID	4. 4∌
FINLAND	COBALT	4, 00
INDONESIA	NICHEL	2, 74
PHILIPPINES	NICHEL	2, 74
	NICHEL	2 67
USSR	FLUORSPAR ACID	2, 45
THAILAND	COBALT	2, 48
AUSTRALIA		2, 23
US	CORALT	2. 17
CANADA	C054_T	2, 12
SOUTH AFRICA	610H0F	2, 12
BOTSWANNA	COBALT	
UH	PYRETHRUM	1, 87 1, 71
MOROGOO	CORALI	
NEW CALEDONIA	CORSET	1. 55
GUATAMALA	NICHEL	1. 32
SOUTH AFRICA	COPALT	0, 72
SOUTH AFRICA	FYRETHEUM	0.55
AUSTRALIA -	FYRETHRUM	0, 54
PHILIFFINES	COBALT	0. 31
FINLAND	NICHEL	Q. 24
GREECE	NICKEL	0.15
YUGOSLAVIA	NICKEL	0.13
NETHERLANDS	NICHEL	O. 05
FRG	NICHEL	0 . 03
MALAYSIA	TIN	Q. 00
PRC	TIN	0.00
BRAZIL	TIN	Q. Q Q
BOLIVIA	TIN	0, 00
UK	TIN	0.00
INDONESIA	TIN	0.00
THAILAND	TIN	0. 00
	TIN	0. 00
US	TIN	0.00
AUSTRALIA	1 4 14	U. U

SCENARIO 2

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
Level of Conflict 3 Media 1
1 2 4 5 6 7
100 100 7.0 5.0 7.0 10.0 2.0
     February 1 2 3 4 5 6 7 8 9 1
February 11
Jeright 10.0 10.0 9.0 4.0 7.0 5.0 10.0 8.0 7.0
Jeright 9.0
I/COLF 0.1190 0.1190 0.1071 0.0474 0.6338 0.6535 0.1190 0.0952-0.0388 0.1
                                                                                                                                                                                                                                                 50
                                                         Level of Conflict 3 Media 3
                                                                                                                                                     6
 10.0
    egion
  lelant 10.0 4.0 2.0 1.0
1/COEF 0.5882 0.2353 0 1176 0.0583
                                            INFLUENCE COEFFICIENTS OVER ALL LEVEL OF COMFLICTS on the Importance of Controlling EACH region within its
 Media 1
 . $\frac{4}{2}\frac{1}{2}\frac{1}{2}\frac{2}{2}\frac{2}{2}\frac{2}{2}\frac{4}{2}\frac{4}{2}\frac{4}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}
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 Region
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 Media
 Region 1 2 3 4 5 6 7
700EF 0.0213 0.0213 0.0213 0.0213 0.0128 0.0005 0.0213
     edia.
 Program
 1/00EF 0.0752 0.0351 0.0:50 0.0075
importance of controlling ANY Region within its Midia as compared to the Importance of controlling ANY Region of any other Media
   Media
   ଟିଥିଲି ବର୍ଷ ବିଷ୍ଟ୍ର ପ୍ରତିମ ଓ ପ୍ରତିଶ ଓ
  Media
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  Region
  Hedia 11
  //COEF 0 0033 0.0033 0.0630 0.0013 0.0023 0 0017 0.0033 0 0026 0 0027 0 0017
I/COEF 0.0030
  Media
  Media
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Region

î/COEF 0.0065 0.0026 0.0013 0.0007

FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	PÖÄZE ELEMENT	CALCU ATE	NORMALIZED
RANCING	NUMBER	Ive te		Value
1	17	NAME CARRIER MATTLE GROUP	Value O ISS	VALUE 10, 000 7, 867
2	1	AIR INTERPORTION	0 135 0 110	フ タイプ
3	\Im	AFP 1 below 1	Q Q9%	<u>.6.</u> 840
4	16	ATTACH SUNE	0, 073	15 22
Ş	19	ATTACK SÖDE SURFALE LÖMBATANYS RAPID DERLOY	0, 080	4 291
<u>&</u>	୍ଟ	RAPID DEFLOY	0,053	4 291 4 141
7	12	THEATER NUCLEAR WEARON	0. 054	ଓ, ବହୁଡ଼
2045 67 89	14	ASR(LAND FASED)	Q Q 4 3	60000000000000000000000000000000000000
	25	CAS	0.040	골 걸으는
- 10 11	-(- (- - (- (- (- (- (- - - (-	ALR SUPERIORITY (LAND I		90000000000000000000000000000000000000
17	4 =1 62-53	ASW(SEA BASEL) AIR SUPERIORITY(SHIP I	1150 () 1150 () (1170)	속 기는
黄金	53	AIR DEFENSE (SHIP BASE)	848 E ID) 0.030 D) 0.027	al. 10 3 1 € 0 3
12 13 14	198044600004000088000 11 11 2120101010101000	STRATESIC BUNBER	8 824	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
15	ŽŠ	SPCE BASED WEAFON (AIR	CNTS: Yo ดีโด้	1 6 4
16	īŝ	SPCE BASED WEAFON(AIR SPECIAL OPERATIONS	615	7.75
15 1 <u>6</u> 17	55	ASAT(SPACE BASED)	o dif	Ö. 3.35
18 19 20	1 ⊜:	MINE WARFARE	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0) 635 0) 824 0 718 0 517
19	2	AMPHIBIOUS ASSAULT	Ō, ŌĪŌ	0.713
20	28	ASAT(LAND BASED)	O. QQ.7	() 5-1
21	20	AIR DEFENSE (LANI BASEI	0.004	0. 264 0. 202
22	-9	SPCE-BASED WEAPON (LND	ENTRLY 003	0, 244 0 202 0 118
	30	SPOE EASED WEAPON (SEA		9 118
<u>44</u> (=) (€)	4 7	APM(SPACE BASEI) ABM(LANI BASEI)	0 000 0 000	Ó GÓÓ Ó GÓÓ
$\pm i $	2 G	INTERCEPTAR AJRORAFT	0, 000 0, 000	O, OO, Q, QQO
	30 27 24 11	- INTERNACION (PR. MARGEME) - Ottom	0.000 0.000	
ခို≎	17	SUTH	Ŏ. 606	<u> </u>
† ≎	ć,	ČIVIL DEFENSE	<u>6, 866</u>	ŏ ōŏō
30	7 5 4	LEW	ð. 666	ð, ðóss

COMMUDITY IMPORTANCE (LOS 3)

	L	-'	Į,	H	_	1	
•	_	_		_	_	_	

AIR INTERDICTION ARMY GROUND	5 44 4 19
LAT 10EM 10EM	1. 62 0. 00
STHATEGIC ROMBER SLBM ASW(SEA BASED)	1, 76 0, 00 1, 27
CARRIER BATTLE GROUP SURFALE COMBATANTS	10.00 4.29
AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SWIP BASED) INTERCEPTOR AIRCRAFT	2, 73 2, 16 0, 00
ABAT (LAND BABED)	0) 52 33, 99
	2.2

TIN

AIR INTERDICTION ARMY GROUND	5, 62 1, 78
CAS	1 77
STRATEGIC BOMBER ASW(LAND BASED)	1 74 3 0
ASW(SEA BASED) ATTACK: SUBS	1. 11 5. 23
CARRIER EATTLE GROUP MINE WARFARE	10.00
SURFACE COMBATANTS	0 92 4 29
AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	2. 73 2. 16
INTERCEPTOR AIRCRAFT ABM(LAND BASED)	0 , 0 0
And the managery	40 47

NICKEL

AIR INTERDICTION ARMY GROUND	5. 33 4. 56
CAS STRATEGIC BOMBER	1. 80 1. 76
ASW (SEA BASED)	1 /1
CARRIER BATTLE GROUP	၂၀ျှီ စိုင္ငံ
SURFACE COMBATANTS AIR SUPERIORITY (LAMI FASEI)	
AIR SUPERIORITY(TRIP BASED)	\$ 55 \$ 15 0 00
INTERCEPTOR HIRCHAPT	40 30
	하 다. 출인

FLUORSPAR ACID

AIR INTERDICTION	4.25
AMPHIBIOUS ASSAULT ARMY GROUND	9. 71
HATT UNDOND Crit	0.71 3.47 1.67
ICEM	Θ υσ
STRATEGIC BOMBER	1 76
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ASW(LANILBABET)	을 수학
ASW(SEA BASED) CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	$-1rac{7}{4}$ $rac{7}{2}$
AIR SUPERIORITY (LAND BASED)	74 27 22 17 2 17
AIR SUPERIORITY(SHIP BAUED) INTERCEPTOR AIRCEART	5 60
ABM(LAND BASED)	ဝ ဝ
2,7222	
	The Contract

PYRETHRUM

ARMY GROUND CIVIL DEFENSE ASW(SEA BASED) CARRIER BATTLE GROUP SURFACE COMBATANTS	2, 40 0, 00 0, 14 10, 00 4, 20
	16.92

COMMODITY NORMALIZED	IMPORTANCE			
TIN	10.00	(4 0	47)
NTCKEL	인 원장	(40.	30)
FLUORSPAR ACID	9. 5ī	(38.	50)
COBALT	8. 4 0	(33.	99)
PYRETHRUM	4 18	Ĺ	16	92)

COBALT A-10 CORRA	CAS CAS
(∩PPA F-4	EAT EAT INTERDICTION
F-16	CAR AIR INTERDICTION
AFT ACFET FABIO RLAY	CAS CAS AIR INTERD CTION CAS
F-111 A-6 F-15	AIR INTERDICTION AIR INTERDICTION AIR INTERDICTION
A-7 F-14- F-18	AIR INTERDICTION AIR INTERDICTION AIR INTERDICTION
SH-3 5H-2 5H-60B	ASW(SEA BASED) ASW(SEA BASED) ASW(SEA BASED) ASW(SEA BASED) ASW(SEA BASED)
STS ATT SUBS	ASW(SEA BASED) ASW(SEA BASED) ASW(SEA BASED) ASW(SEA BASED)
M-48 M-40	ARMY GROUND ARMY GROUND
M-551 M-901	ARMY GROUND ARMY GROUND ARMY GROUND
M-2/M-3 M-1/3 MLRS	ARMY GROUND ARMY GROUND ARMY GROUND
SELFHERON. FERSHING	ARMY GROUND ARMY GROUND ARMY GROUND ARMY GROUND
INFANTRY MORTERS FOLES LNOH	ARMY GROUND ARMY GROUND

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A-6		- 3. 0 000	,
M-48		୍ୟୁ. ନ୍ୟଞ୍ଚ	
원판열		- 2, 8158	
MORTERS		2. 7789	,
SELF-PROP.		2 722 2	
GLOMS		- 2, 2685	i
TOWED ART.		2. 0417	
ATT. SUBS		1. 9554	٠
SH-60B		1, 9163	•
MLRS		1, 5313	:
PERSHING		1.3611	
SH-2		-1.2319	į
FRIGATES		1 1732	,
DSTROYERS		0 7 005	,
INFANTRY		0 5/71	
SH-3		0 4579	
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M-113		0 2270	
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F-111 F-14 F-16 F-16 F-16 F-17 F-16 M-60 M-60 M-60 M-60 M-78 M-78 M-78 M-78 M-78 M-78 M-78 M-78		10.000.000.000.000.000.000.000.000.000.	

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TIN A-10 CAS CAS F-4 CAS CAS INTERDICTION CAS AIR I
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NORMALIZED VALUES F-111 F-12 F-12 F-14 F-10 COBRATELY F-15 F-14 F-15 F-14 F-14 F-14 F-14 F-14 F-15 F-14 F-15 F-14 F-18 F-18 F-18 F-18 F-18 F-18 F-18 F-18	10000000000000000000000000000000000000
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NORMAL 17ED UALTED

NICKEL A-10 CODRA	043 045
F-4	AIR INTERBICTION
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ART. ACRET RADIO RLAY	HAS AIR INTERDICTION
F-111	CAS AIR INTERDICTION
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F-15 A-7	AIR INTERMITATION
F-15 A-7 F-14 F-18 SH-3 SH-3	AIR INTERPLICTION AIR INTERPLICTION AIR INTERPLICTION AIR INTERPLICTION AIR INTERPLICTION ABW (SEA BASED)
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FRIGATES	ASW(SEA BASED)
DETROYERS M-48	ASW(SEA BASED) ARMY GROUND
M-60	ARMY GROUND
M-551	ARMY GROUND
M-901	ARMY GROUND
M-113	ARMY GROUNT
MLRS TOWER ART	ARMY GROUND ARMY GROUND
SELF-PROP	ARMY GROUND
GLOMS	ARMY GROUND ARMY GROUND
INFANTRY	ARMY GROUNT ARMY GROUNT
POLES INCH	ARMY GROUND

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7 135 17 260 400 447 6 267 6 408 60 40 40 40 40 40 40 40 40 40 40 40 40 40	######################################

NORMALIZED F-111 F-12 F-4 F-18 M-1 A-10 M-60 F-15 M-2/M-3 A-7 F-14 COBRA SELF-PROP	HALLEG	
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r -4		6.4195
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1 72		9. 1972
F-10		4. 44444
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SELF-PRUP		3.6296
M-901		一名 西ブラウ
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HII SOES		g. DIY/
M-48		-3.175^{o}
COBRA SELF-PROP. M-901 ATT. SUBS M-48 A-6 INFANTRY S-3 TOWED ART. SH-60B FRIGATES GLOMS		3 0000
THEARTEN		
TIME HIM LEGT		- 골시합관실선
8-3		2, 8158
TOWER ART		クープラウウ
CH-405		5 (555
501675		- 5 1500
FRIGATES		2.1118
GLCMS		1 7014
MI DC		- 1 2313
TLKS		1. ಇತ್ಯತ
SH-2		1.4079
PERSHING		1 2/11
DETERMINE		7 2741
DOLLARD		1. 26/1
MORTERS		1 1910
CUL-5		N E100
9n-9		당. 무슨하스
KALILU KLAY		0.4552
M-113		0.3970
カロモ へついけて		X 1000
HRI HEREI		0. 1874
M-551		0.0567
GLCMS MLRS SH-2 PERSHING DSTROYERS MORTERS SH-3 RADIO RLAY M-113 ART. ACRET M-551 ROLES LNOH		108.6455544433333333322221111111000000

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FLUORSPAR ACID
COERA
F-4

CAS
F-4

CAS
F-16

ACRET
RADIO RLAY

CAS
F-111

ACRET
RADIO RLAY

CAS
F-111

ALE INTERDICTION

ALE INTERDICTION
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14540	6569 4449 8740 4449 2095

NORMALTZED	VALUES	10 0000
NORMALIZED F-111 F-14 F-18 A-10 F-10 A-7 INFANTRY F-12 M-2/M-8 M-201		10,0000 8,5%2
F-4 F-18		8.5473 5.559A
A-10		5, 3732
A-7		4: 0000
INFANTRY E-14		3.6276 3.3333
M-Ž/M-3		8, 2557
A-6		3. 0 000
COBRA		2.9191 2.8153
SH-60E		2 1900
SELF-PROP.		1.8772
MORTERS GLOMS		1,5880 1,5880
TOWED ART.		1. 3611
M-2/M-3 M-901 A-6 COBRA SH-60B ATT. SUBS SELF-PROP. MORTERS GLCMS TOWED ART. M-1 FRIGATES M-60		1. 3611
M-60		1. 22 50
SH-2 MLRS		1 0208
DSTROYERS		0. 7884 0. 7884
M-48 SH-3		0.7622 0.4505
RADIO RLAY		0.3642
ART. ACRET		0.3639 0.2189
MERSHING DSTROVERS M-48 SH-3 RADIO RLAY M-113 ART. ACRET ROLES LNCH M-551		00284240487701800280011100888425209440084574098440999011100881110408828209488811009774881130000000000000000000000000000000000

PYRETHRUM ATT SUBS M-48 M-60 M-113 TOWED ART SELF-PROP INFANTRY MORTERS	ASW(SEA BASED) ARMY GROUND	14 4484 27 3789 44 0009 4 8890 29 3119 69 2228 34 2228
NORMALIZED INFANTRY M-60 SELF-PROP MORTERS TOWED ART. M-48 ATT. SUBS M-113	VALUES 10, 0000 6, 3000 7, 6000 4, 9000 4, 2000 3, 9200 2, 0687 0, 7000	

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ALL COMMODITIES
A-10 CAS
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                                                                                                                    INTERPLICATION
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F-16
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RADIO RLAY
                                                                                                                    INTERDICTION
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AIR INTERLICTION

AIR INTERDICTION

AIR INT
 A-&
F-15
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F-18
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FRICATES
DSTROYERS
M-49
    M-48
   M-60
                                                                                        ARMY GROUND
    M-1
M-551
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  M-901
M-2/M-3
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MLRS
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       6−10
       INFANTRY
A-7
                                                                                                                                                          COBRA
      M-1
M-60
       F-14
      A-6
M-2/M-3
M-901
        SELF-PROP
         S-3
ATT, SUBS
M-48
       M-48
TOWED ART
MORTERS
SH-60B
GLCMS
FRIGATES
PERSHING
MLRS
SH-2
DSTROYERS
            SH-3
                                                                                                                                                               0. 4285
          RADIO RLAY
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          M-113
ART. ACRET
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	COMPOSITE	IMECETANI:	:		
TOTAL	COBALT AMOUNT SHAPL 150 1250 1250 1250 1250 400 250 1100 1000	2.0F 7.6344 21.149 21.1714 0.07527 16.629 11.276 10.00 10.00	COMPUSITE F 1500 00 00 220 00 00 220 00 00 220 00 00 220 00 0	1 170 20 0 8 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	COMPOSITE (LOC 3)	IMPORTANC	E		
	TIN	_			
TOTAL	AMOUNT SUPPLIED 100 16100. 5800. 100 10300. 2400. 3000. 23900.	2 OF TOTAL 0.15 23.82 8.75 9.15 15.25 4.44 35.34 36.00	COMPOSITE IMPORTANCE 0.82 0.82 0.82 1.90 0.90 2.82	1/C1 1 C16 0 432 1 216 1 216 0 549 1 117 0 420 1 216	7 (1 (C1) 10 (12) 10 (2) 10 (4) 10 (4) 10 (6) 17 (6) 17 (6) 17 (6) 17 (6) 17 (6) 17 (6) 17 (6) 17 (6) 17 (6) 18
	COMPOSITE	IMPORTANC	E		
	NICKEL				
TOTAL	AMOUNT SUPPLIED 1000. 5000. 25000. 150000. 88000. 600. 200. 100. 5000. 4000. 5000.	% OF TO SA 64 1 8 1 0 0 0 0 0 1 6 4 3 1 4 1 0 0 0 0 0 1 6 4 3 1 4 1 0 0 0 0 0 1 6 4 3 1 4 1 0 0 0 0 0 1 6 4 3 1 4 1 0 0 0 0 0 1 6 4 3 1 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	COMPOSITE IMPORTANCE 1.72 2.82 0.82 2.31 1.76 1.76 1.76 1.76 1.88 0.82	1/01 0.536 4216 4216 4218 4569 5566 5566 77216 10.77216	%(1/01) 0 1/10 0 1/10 0 7/10 9/9877 12 501 0 01/4 0 01/4 0 09/8 13 9/97
	TOTAL	ALL FEN (10) SHOOL FAN (10) SHOOL TOTAL: COMPOSITE TIN AMOUNT SHPPLIED 1000. COMPOSITE TIN AMOUNT SHPPLIED 1000. COMPOSITE TIN AMOUNT SHPPLIED 1000. COMPOSITE TO COMPOSIT	ALL FECS (100) SHORT TOTAL 1000 STORE SHORT TOTAL 1000 STORE SHORT TOTAL 1000 STORE SHORT SUPPLIED TOTAL 1000 STORE STORE SHORT SUPPLIED TOTAL 1000 STORE	Composite Importance Composite Composite Importance Composite Composite	ALL FECS (100.) SHOOL FILE FALL TRANS- EE/TITY CFITTO- FALL TRANS- CONTROL CONTROL FILE FALL TRANS- CONTROL FILE TRANS- C

COMPOSITE IMPORTANCE (LOG 3)

FLUORSPAR ACID

SOURCE SOUTH AFRIC N S	4
DIS TALY SPAIN EAST AFRICA	
FHAILAND EXICO	

	ANTOUNT SUFFICIED 180 70 100 100 15. 300	200 94 200 94 200 94 200 94 100 94 10	COMPOSITE 1000 175 1000 175 1000 175 1100 175 175 175 175 175 175 175 175 175 175	1/012 01432 01432 01556 01556 015216 0143	2. 1 (2.1) 3. 7.60 4. 7. 1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
TOTAL:	805.	100 00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

SOURCE SOUTH AFRICA USTRALIA L KENYA RWANDA TANJANIA

	AMOUT T SUPPLIEN 2000, 1500 11000, 80000, 25000 78000,	5 OF TOTAL 1 01 0 76 50 51 12.64 39.49	COMPOSITE IMPORTANCE 2.31 0.82 1.76 1.76 1.76	1/02/40/00/00/00/00/00/00/00/00/00/00/00/00/	1. (1. (1.) 0. 43 % 0. (1.) 0. (1.) 1. (1.) 2. (1.) 2. (1.) 2. (1.) 2. (1.)
TOTAL:	197500.	100 00			

SOURCE IMPORTANCE

•	(LOC E)			
SOURCE	%(1/CI) COME IME	FE/SHORTFALL CRITICALITY	TOTAL N	CEMALIZED
OFALT FIREACH MORDOCO POTSWANNA SHUTH AFRICA SAIRE AFILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	310000 704780 200481400 003902129 3902122	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	285027 9027 1155 271155 271155	113200 + 0 0 F 37 0 A CO 64 F 6
AUSTRALIA U S THAILAND INDONESIA US ESLIVIA BRAZIL PRO MALAYSIA	0, 180 10, 299 10, 611 10, 621 10, 084 17, 014 9,65 44, 983	0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00	0, 00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
NICKEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHES LANDS FRO YUGOSLAVIA USSR DOM REPUI GUATAMALA INDONESIA	0, 191 0 710 1, 997 18877 18877 12, 501 0, 037 0, 037 0, 094 1, 997	10, 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00	910757 178877 188677 18861 18961 19088 190	0.2177.1.7.0.0.007.807. 9.2177.1.7.0.0.007.807.
LUDRSPAR ACID SOUTH AFRICA U.S. ITALY SMAIN FAST AFRICA THAILAND MEXICO	9 649 9 760 4 597 7 073 1 768 2 265 18 801	55555555555555555555555555555555555555	82 200 39, 19 40, 19 19, 28 109, 9	31, 30 12, 17 14, 80 22, 72 7, 33 60, 87
YRETHRUM SOUTH AFRICA AUSTRALIA UK EKENYA EWANDA TANZANIA	0, 4 38 0, 923 3, 171 23, 063 7, 207 22, 4 87	5000000 0000000 4444	1, 91 4, 02 13, 81 100, 42 31, 38 97, 91	0. 73 1. 53 5. 25 33. 11 11. 94 37. 25

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

#120045 6780 0120456700001204567 00 012045678001204567	SOUR E TAIREDA MENICO US A AUSTRALIA SOUTH AFRICA SOUTH AFRICA SOUTH AFRICA SPAIN NO SPAIN NO SOUTH AFRICA SOUTH AFRICA	CUMMALT FLUCCHEL PYECTHEM FLUCCHEL PYECTHEM FLUCCHEL PYECTHEM FLUCCHEL PYECTHEM FLUCCHEL PYECTHEM FLUCCHEL PYECTHEM FLUCCHEL PLUCCHEL PLUC	7777669694m3221000000 7777669694m3221000000
12:0045-67-800-01-20045-67-800-01-20045-67-4447	SOUTH AFFICA FHILIFFINES SOUTH AFRICA FINEAND GREECE YUNGSLAVIA NETHERLANIS FRO MALAYSIA PRO BRAZIL BOLIVIA UK INDONESIA THAILAND U S AUSTRALIA	TIN	0, 20 0 7 3 0 7 3 0, 4 3 0, 34

SCENARIO 3

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
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                10.0
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                 Level of Conflict 3 Media 2
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eight
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Eight
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700EF 0, 1071
                 Level of Conflict 3 Media 3
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        10.0
                10.0
                              10.0
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eight
7005F 0.1667 0.1667 0.1667 0.1667 0.1000 0.0667 0.1667
                  Level of Conflict 3 Media 4
                        3
egion
                 4. 0
eight
                        2. 0
        10.0
                               1 0
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/COEF 0, 5882 0, 2353 0, 1176 0, 0583
             INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
             or the Importance of Controlling EACH region within its own Medic
edia
                                                              8
ecion
ZECEF 0.0200 0.0200 0.0140 0.0100 0.0140 0.0200 0.0040 0.0100 0.0040 0.0120
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egion
//COEF 0.0152 0.0152 0.0137 0.0061 0.0107 0.0076 0.0152 0.0122 0.0107 0.0076
ZCOSF 0, 0137
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√CORF 0.0213 0.0213 0.0213 0.0013 0.0128 0.0085 0.0213
edia 4
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/COSE 0.0752 0.0301 0.0150 0.0075
mportance of controlling ANY Region
ithin its Media as compared to the Importance
f controlling ANY Region of any other Media
edia 1
egion
                         3
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ZCDEF 0.0087 0.0087 0.0061 0.0043 0.0061 0.0087 0.0017 0.0043 0.0017 0.0052
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egion
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                         3
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edia 11
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/CDEF 0.0033 0.0033 0.0030 0.0013 0.0023 0.0017 0.0033 0.0026 0.0023 0.0017
/COEF 0.0030
edia 3
egion
/COEF 0.0056 0.0056 0.0056 0.0056 0.0033 0.0022 0.0056
edia 4
legion
                         3
/COEF 0.0065 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RAMEINS	Mill WER	tsate.	VALUE	
1	17	CAPRIER BATTLE GROUP	0.133	10 Oliv
2	1	AIR INTERMICTION	0.112	8. 4 70
3 4	3	ARMY GROUND	0, 035	6 . 372
	16	ATTACK SUDE	0, 073	
5	19	SURFACE COMBATANTS	0.060	
- `- <u>E</u>	_	RAFID DEFLOY	O, 054	
7	12	THEATER NUCLEAR WEARON		
8	14	ASW(LAND BASED)	0, 043	
9	21	AIR SUPERIORITY(LAND BA		
10	4	CAS	0.034	
11	15	ASW(SEA BASEI)	0.032	
12	23	AIR SUPERIORITY (SHIP BA		
13	10	STRATEGIC BUTGER	0.020	
14	21	AIR DEFENSE(SHIP BASED)	0, 022	1.684
15	25	SPOE BASED WEGPON(AIR (:NTRL)0.019	
16	13	SPECIAL OPERATIONS		
17	29	ASAT(SPACE BASED)	0, 019	
18	j =	MINE WARFARE	0.013	0.570
19	2	AMPHIBIOUS ASSAULT	0.010	O 749
20	28	ASAT (LAND BASED)	0.007	0.547
21	20	ATE DEFENSE (LAND BADED)		
22	9	SPOE-BASED WEAPON(LND (
23	30	SPOR BASED WEAFON(SEA (
24	27	ABM(SPYCE BASED) ABM(LANI BASED)	0,000	
<u>2</u> 5	26		0, 000	
26	24	INTERCEPTOR AIRCRAFT		
27	1 1	SLEM	Q. 000	
28	7	ICDM	0, 000	
29	5	CIVIL DEFENSE	0. 0 00	
30	4	OBW	0 , 000	$O = O \oplus C$

COMMODITY IMPORTANCE (LOC 3)

COPALT

AIR INTERDICTION	5 85
ARMY GROUND	3, 90
CAS	1.45
ICBM	0, 00
STRATEGIC BOMBER	1, 85
SLBM	0. 00
ASW(SEA BASED)	1.33
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 51
AIR SUPERIORITY(LAND BASED)	2. 78
AIR SUPERIORITY(SHIP BASED)	2, 27
INTERCEPTOR AIRCRAFT	0, 00
ASAT(LAND BASED)	0. 54
	7:A 4

_	_	
-	7	r. 1

TIN	
	6. 0° 1. 65 1. 58 1. 85 3. 2° 1. 16 5. 4° 10. 00 0. 97 4. 51 2. 78 2. 27 0. 00 0. 00 0. 00
	41. 57
NICKEL	
AIR INTERDICTION ARMY GROUND CAS STRATEGIC FOMMER ASW(SEA BASED) ATTACK SUBS CARRIER BATTLE GROUP MINE WARFARE SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT	5 78 4, 25 1, 42 1, 85 1, 79 5 49 10, 00 0, 97 4, 51 2, 78 2 27 0, 00
FLUORSFAR ACID	CIVIL DEFENSE 0.00 ASW(SEA BASED) 0.10 CIARRIER BATTLE GROUP 10.00 CHARRIER BATTLE GROUP 4.51
AIR INTERDICTION AMPHIBIOUS ASSAULT ARMY GROUND CAS ICBM STRATEGIC BOMBER SLBM ASW(LAND BASED) ASW(SEA BASED) CARRIER BATTLE GROUP SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT ABM(LAND BASED)	7. 31 0. 75 3. 19 1. 70 0. 00 1. 85 COMMODITY NORMALIZED IMPORTANCE 0. 00 TIN 10. 00 (41 5 9. 88 (41 0 9. 88 (37 4 4 51 9) FLUORSPAR ACID 9. 46 (39 8 10. 00 60 60 60 60 60 60 60 60 60 60 60 60

CORALT		
A=10	CAS .	60 0798
CORRA	CAS	40,0532
F-4	AIR INTERTICTION	103 0531
	CAS	6.00 90
F-16	AIR INTERDICTION	73 6480
	CAS	33 3776
ART. ACRET	CAS	3.0040
	AIR INTERDICTION	3 3147
	CAS	2, 2530
F-111	AIR INTERDICTION	132 5664
A-6 -	AIR INTERDICTION	영역, 7 6위위
F-15	AIR INTERDICTION	58 9184
<i>¢</i> :-7	AIR INTERDICTION	53 0265
F-14	AJE INTERDICTION	44.1980
F-18	AIR INTERDICTION	73, 6480
5H-7	ASM(SEA BACED)	6 3742
9H-고	ASW(SEA BASED)	15 9304
SHHAOF	ABW(SEA BASED)	24, 7894
9-3	ASW(SEA BASHD)	36, 4237
ATT. SUBS	ABW(BEA BASED)	25 2942
FRIGATES	ASW(SEA BASED)	15, 1765
DSTROYERS	ASW(SEA BASED)	9, 1059
M-48	ARMY GROUNI)	32, 7691
M-60	ARMY GROUND	52, 6647
11-1	ARMY GROUND	50 5163
M-251	ARMY GRUUND	0 1951
M-901	ARMY GROUND	46 8131
M-2/N-3	ARMY GROUND	40 9614
M-113	ARMY GROUND	4 5513
ML F/S	ARMY GROUND	17, 5549
TOWED ART.	ARMY GROUND	23, 4065
SELF-PROP.	ARMY GROUND	31, 2087
PERCHING	ARITY GROUND	15, 6044
GLOMS	ARMY GROUND	26, 0073
INFANTRY	ARMY GROUND	6, 5018
MORTERS	ARMY GROUND	31, 3589
· · · · · · · · · · · · · · · · · · ·	ARMY GROUNI	1, 3654

0, 10%0 9618 9080 8600 7656 3242 4710 4032 3542 10, 0000 8, 4532 8, 0734 4532 0734 5556 6000 0000 7476 0, 4949 (.00t 0 0.4508 0.4200 0.1473 7755 0 6166 1771 1. 14A: 5321 4444 0000 0000 4141 9727 3,0214 1 20 1 NORMALIZED VALUES F-111 RADIO RLAY HUTER TWIH ART ACRET MORTERS SELF-PROP. TOWED ART. MLRS SH-2 DSTROYERS ATT, SUBS PERSHING FRIGATES INFANTEY M-2/M-3 COBRA SH-AOB M--133 SHOUS M-901 F-14 A-6 M-3 M-40 M--60 F-16 P-10 P-10 M-1 A-1 F-4

TIN		
A-10	CAS	60 0798
COERA	CAS	53 4042
F-4	AIR INTERDICTION	104 0581
	CAS	6 50 6
F-16	AIR INTERDICTION	78 6480
	CAS	33 3774
ART ACRET	CAS	3 0040
RADIO RLAY	AIR INTERDICTION	3.3142
	CAS	2 2530
F-111	AIR INTERDICTION	132, 5664
£:−€	AIR INTERDICTION	44.7411
F=15	AIR INTERDICTION	58, 9184
£:−7	AIR INTERDICTION	53, 0265
F-14	AIR INTERDICTION	49. 7124
F-18	AIR INTERDICTION	82, 8540
SH-3	ASW(SEA BASED)	5. 4 636
SH-2	ABW(BEA BASEI)	13. 6 589
SH-60B	ASW(SEA BASED)	21, 2472
S-3	ASW(SEA BASED)	36, 4237
	ASW(SEA BASED)	15 . 17 63
FRIGATES		15, 1765
DSTROYERS		9, 1059
M-48	ARMY GROUND	3, 6410
M-60	ARMY GROUND	5, 8516
M-1	ARMY GROUND	32, 5091
M-551	ARMY GROUND	0.0450
M-901	ARMY GROUND	5, 8516
M-2/M-3	ARMY GROUND	5, 8516
M-113	ARMY GROUND	0.6502
MLRS	ARMY GROUND	8 7775
	ARMY GROUND	3, 9011
SELF-PROP		5, 2015
PERSHING	ARMY GROUND	13. 6538
GLOMS	ARMY GROUND	22. 75 64
INFANTRY	·	52, 0145
MORTERS	ARMY GROUND	4, 5513
HULES LNOH	ARMY GROUND	0. 1951

2. 4523 1. 7166 1. 6028 1. 1448 1. 1448 1. 0303 1. 0300 0285 9237 7500 3750 0734 2500 5321 0.4200 0.3924 0.3924 0.2943 0.2747 0.2266 0.0147 0.0147 4444 7476 0.6621 0.4414 6989 0 0. 4414 0.4414 NORMALIZED VALUES F-111 SH-3 SELF-PROP. MORTERS TOWED ART. ROLES LNCH M-TG1 GLCMS SH-60B ATT, SUBS FRIGATES RADIO RLAY SH-2 PERSHING DSTROYERS ART, ACRET A-7 INFANTRY F-14 MLRS M-2/M-3 M-901 F-4 F-16 F-18 A-10 F-15 COBRA M-113 M-60 M-40

MILT.EL		
A-10	CAS	£0. 0798
COBRA	CAS	40 0530
F-4	AIR INTERDICTION	79, 5398
	CAS	4, 5060
F-16	AIR INTERDICTION	73. 64 80
	CAE	33 3T/A
ART. ACRET		2, 0027
RADIO RLAY	AIR INTERDICTION	3, 3142
	CAS	2.2530
F-111	AIR INTERDICTION	182, 5664
A-6	AIR INTERDICTION	G9 7699
F-15	AIR INTERDICTION	58, 9184
A-7	AIR INTERDICTION	53. 0265
F-14 .	AIR INTERDICTION	49. 7124
F-18	AIR INTERDICTION	82, 8540
SH-3	ASW(SEA BASED)	7, 2847
9H-2	ASW(SEA BASED)	18 2119
SH-60B	ASW(SEA BASED)	28, 3296
9-3	ASW(SEA RASED)	36. 42 27
ATT, SUBS		45, 5296
FRIGATES		27, 3178
DETROYERS	ABW(BEA BABED)	16, 3907
M-48	ARMY GROUND	36, 4102
M-60	ARMY GROUND	58, 5163
M-1	ARMY GROUND	65. 01 82
M-551	ARMY GROUND	0. 6502
M-901	AEMY GROUND	40, 9614
M-2/M-3	ARMY GROUND	46 8131
M-113	ARMY GROUND	4, 5513
MLRS	ARMY GROUND	17, 5549
TOWED ART.	ARMY GROUND	31, 2087
SELF-PROP.	ARMY GROUND	41.6116
PERSHING	ARMY GROUND	15, 6044
GLOMS	ARMY GROUND	19, 5004
INFANTRY	ARMY GROUND	32, 5091
MORTERS	ARMY GROUND	13, 6538
ROLES LNOH	ARMY GROUND	0. 1951

10, 0000 8, 0734 6, 3399 6, 2500 1089 0890 3738 3242 2364 0000 2046 0000 7500 5313 0214 0000 7476 7466 4523 3542 1370 4714 4444 4345 0607 1771 0, 5495 0.4200 5321 4141 NORMALIZED VALUES M-113 ART, ACRET HUNI CLIUM ATT. SUBS SELF-PROP. RADJO RLAY INFANTRY TOWED ART. SH-60B FRIGATES GLCMS DSTROYERS PERCHING M-2/M-3 MORTERS M-901 COBRA F-111 M-40 MLRS F-16 F-4 F-18 A-10 -15 M-60 F-14 SH-2 0-146 0-6 8-3 T L A-7

FLUORSFAR A	AC.TTI	
A-10	CAS	75, 0997
COERA	CAS	40,0532
F-4	AIR INTERDICTION	132, 5664
	CAS	7, 5100
F-16	AIR INTERDICTION	92, 0800
	EAS	41, 7221
ART, ACRET	CAS	3, 0040
RADIO RLAY	AIR INTERDICTION	3 3142
	£AS	2 2530
F-111	AIR INTERDICTION	165 7080
A-6	AIR INTERDICTION	45, 7124
F-15	AIR INTERDICTION	7 3, 6 4 30
A-7	AIR INTERDICTION	<i>66</i> 2832
F-14	AIR INTERDICTION	55 2360
F-18	AIR INTERDICTION	92, 0500
SH-3	ASW(SEA BASED)	7, 2847
SH-2	ASW(SEA BASED)	18, 2119
SH-60B	ASW(SEA BASED)	35, 4119
3 − 3	ASW(SEA BASEI)	45, 5296
	ASW(SEA BASED)	30, 3531
FRIGATES	ASW(SEA BABED)	21, 2472
DSTROYERS	ABW(SEA BABED)	12, 7483
M-48	ARMY GROUND	10, 9231
M-60	ARMY GROUND	17, 5549
M-1	ARMY GROUND	19, 5054
M-551	ARMY GROUND	O. 1931
M-901	ARMY GROUND	4 6. 8131
M-2/M-3	ARMY GROUND	46, 8131
M-113	ARMY GROUND	5, 2015
MLRS	ARMY GROUND	14, 6291
TOWED ART.		19, 5054
SELF-PROP.	ARMY GROUND	26.00 73
PERSHING	ARMY GROUND	13, 6538
GLOMS	ARMY GROUNI	22. 7564
INFANTRY	ARMY GROUND	52, 0145
MURTERS	ARMY GROUND	22, 7569
RULES LNCH	ARMY GROUND	0. 1951

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NORMALIZED VALUES	
F-111	10,0000
F-4	8, 4532
F-16	8, 0734
F-18	5, 5556
A-10	4 5821
F-15	4 4444
A-7	4, 0000
F-14	3 3373
INFANTRY	3.1389
A-6	3. 0000
M-2/M-3	2, 8250
M-901	2, 8250
S-3	2. 7476
COBRA	2 4171
SH-60B	2. 1370
ATT. SUPE	1.8317
SELF-PROP.	1. 5695
MORTERS	1.3733
GLOMS	1.3733
FRIGATES	1. 2822
TOWED ART.	1. 1771
M-1	1. 1771
SH-2 M-40	1. 0990 • 05 07
M-60 MURB	1, 0594
	0.8828
PERSHING	0, 8240

0.7693

0. 6592

0.4396

0.3360

0.1813

0.0118

0.0118

15. 1765 25. 4871 40. 9614 4. 5519 27. 3076 36. 4102 65. 0182 31. 8589

PYRETHRUM	
ATT. SUBS	ASM(SEA BASED)
M-48	ARMY GROUND
M-60	ARMY GROUND
M-113	ARMY GROUND
TOWED ART.	ARMY GROUND
SELF-PRUP.	ARMY GROUND
INFANTRY	ARMY GROUND
MORTERS	ARMY GROUND

DSTROYERS

RADIO RLAY

ROLES LNCH

M-49 8H-3

M-113 ART. ACRET

M-551

NORMALIZED VALUES	
INFANTRY	10,0000
M-60	6 , 3000
SELF-PROP.	5 6000
MORTERS	4, 9000
TOWED ART.	4, 2000
M-48	3, 9200
ATT, SUBS	2.3342
M-113	0. 7000

ALL COMMO	DITIES	
A-10	CAS	2, 5534
COBRA	CAS	1, 7356
F-4	AIR INTERDICTION	4. 2421
	CAS	0. 2403
F-16	AIR INTERDICTION	3, 1300
	CA.3	1.4186
ART. ACRET		0. 1101
RADIO RLAY	AIR INTERDICTION	0. 1326
	CAS	0. 0901
F-111	AIR INTERDICTION	5. 6341
A-6	AIR INTERDICTION	1. 7399
F-15	AIR INTERDICTION	2, 5040
A-7	AIR INTERDICTION	2, 2536
F-14	AIR INTERDICTION	1. 9885
F-18	AIR INTERDICTION	3.3142
SH-3	ASW(SEA BASED)	0. 2641
SH-2	ASW(SEA BASED)	0. 6602
SH-60B	ASW(SEA BASED)	1. 097공
5-3	ABW(BEA BABEL)	1,5480
ATT. SUBS	ASW(SEA BASED)	1. 3153
FRIGATES	ASW(SEA BASED)	0. 7892
DSTROYERS	ASW(SEA BASED)	0.4735
M-48	ARMY GROUND	1.0923
M-60	ARMY GROUND	1. 7555
M-1	ARMY GROUND	1. 7555
M-551	ARMY GROUND	0. 0111
M-901	ARMY GROUND	1. 4044
M-2/M-3	ARMY GROUND	1.4044
M-113	ARMY GROUND	0. 1951
MLRS	ARMY GROUND	0.5852
TOWED ART.	ARMY GROUND	1.0533
SELF-PROP.	ARMY GROUNT	1. 4044
PERSHING	ARMY GROUND	0. 5852
GLOMS	ARMY GROUND	0. 9103
INFANTRY	ARMY GROUNI)	2. 0806
MORTERS	ARMY GROUND	1.0463
ROLES LNOH	ARMY GROUND	0.0195

NORMALIZED VALUES

F-111

10,00000
F-16
F-16
R,0734
F-18
A-10
A-10
A-10
A-10
A-7
A-10
A-7
A-10
A-7
A-10
A-7
A-10
A-7
A-10
A-6
A-6
COBRA
S-3
A-60
B-7
ATT. SUBS
SH-60B
MCRS
CLCMS
FRIGATES
CLCMS
FRIGATES
DISTROYERS
COSA
COSA
CLCMS

CRITICALITY OF SHORTFALL ALL FE'S (LOC 3)

R		STUCK	SHORT		FE/	_	11
f	GUAL.	FILE	FALL	THANS-	CMODITTY	CRITIC-	FE : :
_ COMMODITY	(UNITS)	(UNITS)	(%)	LATER			CRITICALTY.
DEALT	85. 4	4 3. 8	-48 7	402.5			7 7
IN	42. O	190.6	353. S	\mathbf{O}_{i} (iii)	10.0	0. 0	· r.
ICKEL	200. Q	32. 2	-83, 9	437.7	9, 9	4324 5	
LUORSPAR ĀCID	1400.0	895. O	-36 1	명왕인, 회	9.5	3A84 5	
/RETHRUM	500.0	0.0	-100. Q	453 8	4 1	1853 2	4 3

COMPOSITE IMPORTANCE (LOC 3)

COBALT

DURCE INLAND OROCCO OTSWANNA OUTH AFRICA

AMBIA

ANADA . S

HILIPPINES USTRALIA EW CALEDONIA

AMOUNT SUPPLIED 1350, 450, 250 150, 12000,	% OF TOTAL 6, 43 2, 14 1, 19 0, 71 56 52	COMPOSITE IMPORTANCE 1, 72 2, 05 1, 76 2, 31 1, 76	1/CI 0, 580 0, 487 0 569 0 432 0, 569	%(1/01) 3 731 1 043 0 678 0 304 33 881
50. 50. 400 250. 1100. 1000	16 67 0, 24 1, 90 1, 19 5, 24 4, 76	1, 76 0, 82 0, 82 0, 82 2, 61 2, 31	0. 569 1. 216 1. 216 1. 216 0. 383 0. 432	9 490 0 289 1 314 1 447 2 007 2 059
	7. 70	ఉంది. చెక	U. # 24	1 00-

TOTAL: 21000. 100.00

COMPOSITE IMPURTANCE (LOC 3)

TIN

ALAYSIA	23900.	35, 36	0.82 1.	216	4 2. 9 83
RC	3000	4. 44	2 . 33 0 .	429	1, 905
BRAZIL	2400.	3, 55	0. 90 1.	117	3, 964
OLIVIA	10300.	15. 24	0. 90 1.	117	17. Q14
<u> </u>	100.	0.15	1. 76 O.	569	0. 084
NDONESIA	5800.	8. 58	0.82 1.	216	10 431
HAILAND	5900.	8. 73	0, 82 1,	216	10.611
7 S	16100.	23, 82	2, 31 0,	432	10. 2 99
USTRALIA	100.	0. 15	0.82 1.	216	0. 180
BOURCE	SUPPLIED	TOTAL	IMPORTANCE .	I/CI	%(1/CI)
· 	AMOUNT	% OF	COMPOSITE		

TOTAL: 67600. 100.00

COMPOSITE IMPORTANCE (LOC 3)

NICKEL

AHOURT	% OF	COMPOSITE	-	
SUFFLIED	TOTAL	IMPORTANCE	1/01	% 1/LIS
1 (0C(i)) = -	0.33	1. 72	0.580 .	< 0. 191
5000.	1.64	2, 31	0. 432	0.710
5 000.	1.64	0 82	1. 216	1. 4427
25000.	8, 21	0, 82	1, 216	St. Stell
150000.	49. 2 8	2, 61	0. 383	18 877
88000.	28. 91	2, 31	Q. 432	12, 501
6 00	0. 20	1. 76	O. 569	€ 112
200.	0.07	1. 76	0. 569	0.037
100	0.03	1.76	0.569	(019
500	0.16	1.7σ	0. 569	\mathbf{O}_{i} , \mathbf{O}_{i} : \mathbf{C}_{i}
5000	1.64	O. 83	1. 160	1 905
15000	4. 93	1, 38	0.727	
4 000.	1. 31	1 38	O. 7 27	0, 955
5000	1.64	0, 82	1, 216	1. 697
	\$BRFL1ED 1000 - 5000. 5000. 25000. 150000. 88000. 600 200. 100 500 10000 4000.	SUPPLIED TOTAL 1000 - 0 33 5000. 1.64 5000. 1.64 25000. 8.21 150000. 49.28 88000. 28.91 600 0.20 200. 0.07 100 0.03 500 0.16 5000 1.64 15000 4.93 4000. 1.31	SUPPLIED TOTAL IMPORTANCE 1000 - 0.88 1.72 5000. 1.64 2.31 5000. 1.64 0.82 25000. 8.21 0.82 150000. 49.28 2.61 88000. 28.91 2.31 600 0.20 1.76 200. 0.07 1.76 100 0.08 1.76 500 0.16 1.76 500 1.64 0.88 15000 4.98 1.38 4000. 1.31 1.38	SUPPLIED TOTAL IMPORTANCE 1/C1 1000 0.33 1.72 0.580 5000 1.64 2.31 0.432 5000 1.64 0.82 1.216 25000 8.21 0.82 1.216 150000 49.28 2.61 0.383 88000 28.91 2.31 0.432 600 0.20 1.76 0.569 100 0.03 1.76 0.569 500 0.16 1.76 0.569 500 1.64 0.86 1.160 1000 4.93 1.38 0.727 4000 1.31 1.38 0.727

TOTAL: 304400 100 00

COMPOSITE IMPORTAGE E

(L00 3)

FLUORSPAR ACID

, -		AMOUNT	% OF	COMPOSITE		
COURCE		SUPPLIED	TOTAL	IMPORTANCE	1703	5(1 O I)
OUTH AFRICA		180	22. 34	2. 31	0.432	9 45
ប្ទ		70.	8. 70	2. 31	0.432	3. 7 60
ITALY		65.	8. 07	1. 76	0. 569	A 207
FAIN		100.	12.42	1. 76	0. 569	7 073
LAST AFRICA		25.	3.11	1. 76	0. 569	1. 768
THAILAND		15.	1. 86	0. 82	1. 216	2, 265
EXICO		350.	43, 48	2, 31	0.432	18 801
	TOTAL	COST	100.00			

TOTAL: 805, 100,00

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

OURCE SOUTH AFRICA AUSTRALIA K RENYA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000.	% OF TOTAL 1. 01 0. 74 5. 57 40. 51	COMPOSITE IMPORTANCE 2.31 0.82 1.76 1.76	1/CI 0. 432 1. 216 0. 569 0. 569	%(1/01) 0, 438 0, 923 3, 171 23, 063
KENYA RWANDA PANZANIA	25000. 78000. 78000.	12. 66 39. 49	1. 76 1. 76	0. 569 0. 569	7. 207 22. 4 87
	TOTAL: 197500.	100.00			

SOURCE IMPORTANCE (LOC 3)

SUURCE	%(1/01) COMP INP			ORMALIZED TO 100
DBALT FINLAND MUROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMFIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3, 731 1, 049 0, 678 0, 309 33, 892 9, 490 0, 289 2, 316 1, 447 2, 007 2, 099	7, 72 7, 72	25, 80 8, 05 5, 23 2, 38 261, 68 73, 27 2, 24 17, 88 11, 18 15, 49 15, 90	. 13.03 2.00 0.91
IN AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA BRAZIL PRC MALAYSIA	0. 180 10. 299 10. 611 10. 481 0. 084 17. 014 3. 964 1. 905 42. 983	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0. 191 0. 710 1. 997 9. 905 18. 877 12. 501 0. 112 0. 037 0. 019 0. 094 1. 905 3. 582 0. 955 1. 997	10. 00 10. 00	1, 91 7, 10 19, 97 99, 80 188, 77 125, 01 1, 12 0, 37 0, 19 0, 94 19, 00 35, 82 9, 55 19, 97	
LUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 768 2, 265 18, 801	8, 52 8, 52 8, 52 8, 52 8, 52 8, 52	82, 42 32, 05 39, 19 60, 29 15, 07 19, 31 160, 27	31, 50 12, 25 14, 98 23, 04 5, 76 17, 38 61, 25
PRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 438 0, 923 3, 171 23, 043 7, 207 22, 487	4, 29 4, 29 4, 29 4, 29 4, 29 4, 29	1, 88 3, 96 13, 59 98, 83 30, 8 8 96, 36	37, 77

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

#	SOURCE	COMMODITY COBALT NICKEL FLUORSPAR ACID NICKEL PYRETHRUM PYRETHRUM FLUORSPAR ACID COBALT FLUORSPAR ACID NICKEL FLUORSPAR ACID NICKEL FLUORSPAR ACID PYRETHRUM COBALT NICKEL NICKEL NICKEL NICKEL NICKEL FLUORSPAR ACID NICKEL FLUORSPAR ACID NICKEL FLUORSPAR ACID NICKEL FLUORSPAR ACID NICKEL COBALT COBALT COBALT COBALT COBALT COBALT COBALT	VALUE [*]
· 1	ZAIRE	COBALT	100, 00
.2	CANADA	NICHEL	72. 14
3	MEXICO	FLUORSPAR ACID	61. 25
p 4	U S	NICHEL	47, 77
5	AUSTRALIA	NICKEL	38.16
6	KENYA	FYRETHRUM	37 77
7	TANZANIA	PYRETHRUM	36 8 2
ε	SOUTH AFRICA	FLUORUPAR ACID	91 77
9	ZAMDIA	COEALT	28 (0)
10	SPAIN	FLUORSPAR ACID	23, 04
1	ITALY	FLUORSPAR ACII	14 95
2	DOM. REPUB	NICHEL	13. 69
13	US	FLUORSPAR ACID	12, 25
44	RWANDA	FYRETHRUM	11. 80
5	FINLAND	CORALT	11. 01
16	INDONESIA	NICHEL	7.69
17	PHILIPPINES	NICKEL	7, 63
8	THAILAND	FLUORSFAR ACID	7. Sa
.9	USSR	NICHEL	7. 28
20	AUSTRALIA	COBALT	6.8 3
1	បទ	COBALT	6. 08 5. 92
12	CANADA	COBALT	의 경기 등 기기
23	EAST AFRICA	FLUORSPAR ALID	5. 76 5. 76
?4	UE	PYRETHRUM	5. 19
- 5	NEW CALEPONIA	COBALT	4 27 2 45
16	GUATAMALA	NICKEL	3, 65 8, 89
27	MOROCCO	COBALT	3.08
8	MOROCCO SOUTH AFRICA BOTSWANNA	NICKEL	2. 71
9	BOTSWANNA	COBALT	2. 00
30	AUSTRALIA	FYRETHRUM	1. 51
7:1	SOUTH AFRICA	CORALT	0. 91 0. 0
::2	PHILIPPINES	COBALT	0, 80 0, 70
33	FINLAND	NICKEL	0. 73
7.4	SOUTH AFRICA	FYRETHRUM	0. 72
:5	FINLAND SOUTH AFRICA GREECE YUGOSLAVIA NETHERLANDS FRG	NICKEL	0.43
	YUGOSLAVIA	NICKEL	0.36
37	NETHERLANDS	NICKEL	0. 1 4 0. 07
8	FRG	NICKEL	0. 07 0. 00
ું:9	MALAYSIA	TIN	0.00
40	PRC	FLUGRSPAR ACID FLUGRSPAR ACID NICHEL FLUGRSPAR ACID PYRETHRUM COBALT NICHEL COBALT COBALT COBALT FLUGRSPAR ACID PYRETHRUM COBALT COBALT NICHEL COBALT NICHEL COBALT NICHEL COBALT NICHEL COBALT NICHEL COBALT PYRETHRUM COBALT NICHEL COBALT NICHEL COBALT NICHEL NIC	0. 00 0. 00
4.1	BRAZIL	FILE	0. 00 0. 0 0
. 2	BOLIVIA	TIN	
43	UK	TIN	0. 00
44	INDONESIA	TIN	0.00
-5		TIN	0. 00
1.6		TIN	0. 00
47	AUSTRALIA	TIN	0. 00
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SCENARIO 4

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                  Level of Conflict 3 Media 1
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ZCOEF 0.1786 0.1786 0.1250 0.0893 0.1250 0.0357 0.0357 0.0893 0.0357 0.4551
                  Level of Conflict 3 Media 2
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/COEF 0.1333 0.1333 0.1200 0.0533 0.0933 0.0447 0.0133 0.1047 0.0933 0.1047
/00EF 0_1-200
                  Level of Conflict 3 Media 3
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ZCOEF 0 1785 0.1786 0.1786 0.1429 0.1071 0.0714 0.1429
                  Level of Conflict @ Media 4
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egion
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        10.0
                 4. 0
                        2. 0
esight
/COEF 0.5882 0.2353 0.1174 0 0583
             INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
             or the Importance of Controlling EACH region within its een Melic
edia 1
ecion.
ZOUEF 0.0228 0 0228 0 0140 0 0114 0.0160 0.0046 0.0046 0.0114 0 0046 0 0137
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700EF 0 0171 0.0171 0.0154 0.0068 0.0119 0.0085 0.0017 0.0136 0.0119 0 0085
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ZODEF 0 0228 0.0228 0 0228 0.0183 0.0187 0.0091 0 0183
ledia
legion.
/COEF 0.0752 0.0301 0.0150 0.0075
mportance of controlling ANY Region
within its Media as compared to the Importance
of controlling ANY Region of any other Media
iedia 1
legion
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/CDEF 0.0099 0.0099 0.0070 0.0030 0.0070 0.0020 0.0020 0.0050 0.0020 0.0060
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/CDEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
/COEF 0.0033
edia 3
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/CDEF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
egion
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                          3
/COEF 0.0065 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (LOC 3)

	EL EMENT	FORCE ELEMENT CA	ALCUL ATEI	NORMAL IZED
RANLING	NUMBER	NAME	VALUE	VALHE
1	17	CARRIER BATTLE GROUP	0 132	10,000
2	1	ATR INTER 10:10%	0.107	୍ରଣ ପଥାଏ
3	3	ARMY GROOMS	0.080	6 , 035
4	16	ATTACK SUIS	0.072	5 464
5	19	SURFACE COMBATANTS	0,060	
6	12	THEATER NUILEAR WEARON	0 054	
. 7	8:	PAPII DEPLOY	0.052	
î ÎB	: 4	ASK(LAND BASED)	0.043	3 200
c)	6	CAS	0. 037	
1 Q	23	AIR SUPERIORITY (LAND BAS		
1 1	15	ASW(SEA BASED)	0. 033	
12	20	AIR SUPERIORITY/SHIP BAS		
13	10	STRATEGIC BOMBER	0.025	
14	21	AIR DEFENSE(SHIP BASED)		
15	25	SPCE BASED WEAPON(AIR ON		
16	29	ASAT(SPACE BASEI)		
17	1 គ	MINE WARFARE	0.013	
18	2	AMPHIBIOUS ABBAULT	0. 011	• • • •
$1 \mathbb{P}$	13	SPECIAL OPERATIONS	0.010	•
20	28	ASAT(LAND DASED)	0 007	
21	·=)	SPCE-BASED WEAPON(LND CN		
2 7	20		0.003	
23	30	SPCE BASED WEAPON(SEA CH	TRLD0 002	$Q_{i,j}(1,1,1,1)$
24	27	APM(SPACE BASED)	0.000	O OO
	26	APM(LANI) BASED)	$\dot{\mathbf{O}}$ (40.6)	$Q = Q(Q) + \epsilon$
26	24	INTERCEPTOR AIRCRAFT	0.000	$\mathbf{Q} = \mathbf{Q}(i,j)$
27	11	SLBM	0.000	$\mathbf{O}_{i}/\mathbf{O}(00)$
28	7	ICBM	0.000	<u>0</u> 000
같 [©]	5	CIVIL DEFENSE	O OCO	
30	4	CEW	0 000	0. 000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5, 57
ARMY GROUND	3. 6 9
CAS	1.57
ICBM	0, 00
STRATEGIC BOMBER	1.91
SLBM	0. 00
ASW(SEA BASED)	1,35
CARRIER BATTLE GROUP	10.00
SURFACE COMEATANTS	4, 52
AIR SUPERIORITY(LAND BASED)	2, 55
AIR SUPERIORITY(SHIP BASED)	2.43
INTERCEPTOR AIRCRAFT	0. 00
ASAT (LAND BASED)	Q 54
	34 13

5 7A
1. 57
1.72
1 64
3, 29
1, 18
5 47
1 (c) (b)
O 95
4. 52
2, 53
2.43
Q. QQ
O. OO
41 32

NICKEL

AIR INTERDICTION APMY GROUND	5. 44 4. 00
CAS STRATEGIO BOMBER	1 54
ASM(SEA BASEI)	1.82
CARRIER BATTLE GROUP MINE WARFARE	5, 47 10, 00
SURFACE COMBATANTS	0. 95 4. 52
AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	2, 55 2, 43
INTERCEPTOR AIRCRAFT	<u> </u>
	40.

40.67

		PYRETHRUM		
FLUORSFAR ACID		ARMY GROUND	2 19	
AIR INTERDICTION AMPHIBIOUS ASSAULT ARMY GROUND CAS ICBM STRATEGIC BOMBER SLBM ASW(LAND BASED) ASW(SEA BASED) CARRIER BATTLE GROUP SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT ABM(LAND BASED)	2.43	COMMODITY NORMALIZED TIN FICHEL FLUORSPAR ACID	0 00 0 15 10 00 4 52 	(41 P2 (40 6P) (39 04 (34 1) (16 8P
	39 04			

COFALT		
A-10	CAS	65, 2197
COPHA	CAS	43 4793
F-4	AIR INTERDICTION	100, 9364
	CAS	6, 5230
F-16	AIR INTERNICTION	70. 6147
	CAB	36, 2332
ART. ACRET	CAS	3. 2610
RADIO RLAY	AIR INTERDICTION	3, 1543
	CAS	2. 4497
F-111 .	AIR INTERLICTION	126 1703
A-6	AIR INTERDICTION	37 8512
F-15	AIR INTERDICTION	56, 0758
A-7	AIR INTERDICTION	50 4682
F-14	AIR INTERDICTION	42, 0569
F-19	AIR INCERDICTION	70. 0947
SH-3	ASW(SEA BALED)	6.46-3
SH-2	ARW(SEA FAREI)	16, 1732
SH-60B	ABWKEEA FAREIS	25 1583
S-3	ABW(BEA BASED)	36 9674
ATT. SUBS	ASW(SEA BASE)	25 6718
FRIGATES		15. 4031
DISTROYERS		9 2418
M-48	ARMY GROUND	31, 0396
M-60	ARMY GROUND	4 9 8850
M-1	ARMY GROUND	55. 4 278
M-501	ARMY GRUUNI	0.1340
M-901	ARMY GROUNI	44 3423
M-2/M-3	ARMY GROUND	38 7 995
M-113	ARMY GROUND	4. 3111
MLRS	ARMY GROUND	16, 6283
	ARMY GROUND	22, 1711
SELF-PROP.	- ···	29, 5615
FERSHING	ARMY GROUND	14, 7808
GLOMS	ARMY GROUND	24, 6346
INFANTRY	ARMY GROUND	6, 1586
MORTERS	ARMY GROUND	30. 1774
HULLES ENCH	ARMY GROUND	1, 2933

3918 3430 0347 1, 9525 1, 7572 1, 3179 1, 2819 1, 2208 1, 1715 4273 5556 1692 4444 3333 0752 0000 0466 0000 9533 9300 4601 3931 5145 4461 7325 2127 4881 NORMALIZED VALUES RADIO RLAY MULES LNLH M-101 SELF-PROP. ATT. SUBS SH-60B GLCMS TOWED ART. MLRS SH-2 FRIGATES PERSHING NET ALKET DST: YERS INFANTRY F-14 M-2/M-3 M-48 MORTERS M-113 A-7 M-60 M-901 COERA F-111 (6) H (6) F-16 F-18 F-19 F-15 M-1 0-6 0-0

TIN		
A-10	CAS	65, 2197
COBRA	CAS	57. 97 £1
F-4	AIR INTERDICTION	100, 9364
	CAS	6 5220
F-16	AIR INTERDICTION	70 0947
	CAS:	36 2332
ART ACRET	CAS	3, 2610
RADIO REAY	AIR INTERDICTION	3, 1543
	CAS	2, 4457
F-111	AIR INTERDICTION	126, 1705
F:-6	AIR INTERDICTION	42, 5826
F-15	AIR INTERDICTION	54, 0758
A-7 .	AIR INTERDICTION	5 0, 4 882
F-14 -	AIR INTERDISTION	4 7. 3140
F-18	AIR INTERDICTION	78, 8566
SH-3	ABW(BEA BABEI)	5, 5451
SH-2	ASW(SEA BASEI)	13,8628
SH-AOB	ASW(SEA BASED)	21,5643
9-3	ASW(SEA BASED)	36, 9674
ATT, SUBS	ASW(SEA BASED)	15, 4031
FRIGATES	ASW(SEA BASED)	15. 4031
DSTROYERS	ASW(SEA BASED)	9, 2418
M-48	ARMY GROUND	ଓ, 44୫୫
M-60	ARMY GROUND	5, 5428
M-1	ARMY GROUND	30. 7 932
M-501	ARMY GROUND	0.0616
M-901	ARMY GROUNIC	5, 5428
M-2/M-3	ARMY GROUND	5, 5428
M-113	ARMY GROUND	Q. 6159
MLRS	ARMY GROUND	8. 3143
TOWED ART.	ARMY GROUNI	3, 6952
SELF-PROP	ARMY GROUND	4 、9269
PERSHING	ARMY GROUNI)	12, 9332
GLOMS	ARMY GROUND	21, 5553
INFANTRY	ARMY GROUND	49, 2692
MORTERS	ARMY GROUND	4. 3111
ROLES LNOH	ARMY GROUND	0. 1848

NORMALIZED VALUES

10, 0000 8, 5169 8, 4273 9300 **4**40**6** 7091 708**4** 2208 2208 0, 4393 0, 4393 0, 4393 0, 3905 4273 2500 1692 9050 7500 0029 30.58 504 4444 0000 3750 0.04:12 0251 7225 0.4438 4395 /108 1.008/ PERSHING DSTROYERS MLRS RADIO RLAY SH-3 M-2/M-3 HOLES LNCH Magni AL F.F.T FRIGATES ATT. SUBS SH-2 M-60 SELF-PROP MORTERS TOWED ART. INFANTRY F-14 SH-60B F-111 F-4 COBRA M-48 F-16 F-18 A-10 F-15 A-7 **₩** 8-9 8-3

NICKEL		
A-10	CAS	65, 2197
COPRA	CAS	4일, 47학급
F-4	AIR INTERDICTION	75, 7023
	CAS	4, 8915
F-16	AIR INTERDICTION	70. 0°47
	CAB	36, 2352
ART. ACRET	CAS	2, 1740
RADJO RLAY	AIR INTERPICTION	3, 1543
	CAS	2, 4457
F-111	AIR INTERDICTION	126, 1705
A-6	AIR INTERMICTION	37, 8512
F-15	AIR INTERDICTION	56, 0738
A-7	AIR INTERDICTION	50, 4682
F-14	AIR INTERDICTION	47, 3140
F-18	AIR INTERDICTION	78, 8566
SH-3	ASW(SEA BASED)	7, 3935
SH-2	ASW(SEA BASED)	18, 4837
SH-60B	ASW(SEA BASED)	28 75 24
9-3	ASW(SEA BASED)	36, 9674
ATT, SUBS	ASW(SEA BASED)	46 2092
FRIGATES	ASW(SEA BASED)	27, 7 255
DSTROYERS	ABW(SEA BASED)	16, 6303
M-48	ARMY GROUND	34, 4884
M-60	ARMY GROUND	55, 4278
M-1	ARMY GROUND	61, 5865
M-551	ARMY GROUND	0.6159
M-901	ARMY GROUND	38, 7995
M-1/M-3	ARMY GROUND	44, 3423
M-113	ARMY GROUND	4, 3111
MLRS	ARMY GROUND	16, 6283
TOWED ART.	ARMY GROUND	29, 5615
SELF-PROP.	ARMY GROUND	39, 4173
PERSHING	ARMY GROUND	14, 7808
GLCMS	ARMY GROUND	18, 4739
INFANTRY	ARMY GROUND	30. 7 932
MORTERS	ARMY GROUND	12, 9332
	ARMY GROUND	0. 1848

3185 1970 4450 0, 4438 0, 3417 0752 7335 4406 3430 1715 1692 8812 4444 2789 4644 0.5960 3931 9300 3877 1240 1,0251 7500 6624 5143 4461 NORMALIZED VALUES RAPTO FLAY M-113 FILLS LNCH ART ACRET GLCMS DSTROYERS ATT. SUBS M-2/M-3 COBRA SELF-PROP. M-901 A-6 S-3 M-48 TOWER ART MLRS PERSHING SH-60B FRIGATES INFANTRY MORTERS 1-2-W (0) 11/00 10/00 F-111 SH-2 F-14 M-60 A-7 F-16 F-18 A-10 F-15 F-4

FLUORSPAR A	ACID	
A-10	CAS	81, 5247
COBRA	CAS	43, 4798
F-4	AIR INTERDICTION	126, 1705
	CAS	8 1525
F-16	AIR INTERDICTION	87.6184
	CAS	45, 2915
ART, ACRET	CAS	3, 2610
RAPIO RLAY	AIR INTERDICTION	9 1548
	CAS	2, 4457
F-111	AIR INTERDICTION	157, 7132
A-6	AIR INTERDICTION	47, 3140
F-15	AIR INTERDICTION .	70, 0947
A-7 -	AIR INTERPORTION	63. 0 853
F-14	AIR INTERDICTION	52, 5711
F-18	AIR INTERDICTION	87, 6184
SH-3	ASW(SEA BASEI)	7 . 3930
SH~2	ASW(SEA BASED)	18, 4 837
SH-60B	ASW(SEA BASED)	35 , 9403
S-3	ASW(SEA BASEI)	46 , 2 092
ATT. SUBS	ASW(SEA BASED)	30,8041
FRIGATES	ASW(SEA BASED)	21, 5643
DSTROYERS	ASW(SEA BASED)	12. 9 386
M-48	ARMY GROUNII	10, 3465
M-60	ARMY GROUND	16 , 62 83
M1	ARMY GROUND	18, 47 59
M-551	ARMY GROUND	0, 1848
M-901	ARMY GROUNT	44,3423
M-2/M-3	ARMY GROUND	44. 3473
M-113	ARMY GROUND	4, 9269
MLRS	ARMY GROUND	13 8570
TOWED ART.	ARMY GROUND	18 4759
SELF-PROP.	ARMY GROUND	24 6344
PERSHING	ARMY GROUND	12, 9332
GLCMS	ARMY GROUND	21, 5553
INFANTRY	ARMY GROUND	49, 2692
MORTERS	AF:MY GROUND	21, 5553
ROLES LNCH	ARMY GROUND	0, 1848

A .

NORMALIZED VALUES	
F-111	10, 0000
F-4	8 5169
F-16	8 4273
F-18	5 555W
A-10	5, 1692
F-15	4. 4446
A-7	4, 0000
F-14	3, 8393
INFANTEY	3 1240
A-6	3. 00 00
S-3	2, 9300
M-2/M-3	2, 8116
M-901	2 8116
COBRA	2, 7519
SH-60B	2, 2789
ATT. SUBS	1 9533
SELF-PROP.	1, 5620
FRIGATES	1. 3673
MORTERS	1. 3667
GLOMS	1. 3667
SH-2	1. 1720
TOWED ART.	1, 1715
M-1	1. 1715
M-60	1, 0543
MLRS	0. 8786

0.8204

0.8200

0. 6560

0. 4688 0. 3551

0.3124

0. 2068

0.0117

0.0117

15. 4031 24. 1419 38. 7995 4. 3111 25. 8663 34. 4884 61. 5865 30. 1774

PYRETHRUM

DSTROYERS.

PERSHING M-48

RADIO RLAY

ROLES LNOH

SH-3

M-113 ART. ACRET

M-551

ATT. SUBS	ASW(SEA BASED
M-48	ARMY GROUND
M-60	ARMY GROUND
M-113	ARMY GROUND
TOWED ART.	ARMY GROUND
SELF-PROP.	ARMY GROUND
INFANTRY	ARMY GROUND
MORTERS	ARMY GROUND

NORMALIZED VALUES

INFANTRY	10.	0000
M-60	Ł.	3000
SELF-PROP.	5.	6000
MORTERS	4.	9000
TOWED ART	4	2000
M-49	3.	9200
ATT SUBS	2	5010
M-113	O.	7000

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ALL COMMODITIES
A-10
            CAS
                                                      2, 7718
COBRA
            CAS
                                                      1.8841
F-4
            AIR INTERDICTION
                                                      4. 0375
            CAS
                                                      0.2609
F-16
            AIR INTERDICTION
                                                      2. 9790
            CAS
                                                      1,5399
ART.
     ACRET DAS
                                                      0.1196
RADIO REAY AIR INTERMICTION
                                                      0.1262
            CAS
                                                      0 0978
F-111
            AIR INTERDICTION
                                                      5, 3622
A-6
            AIR INTERDICTION
                                                      1, 6560
F-15
            AIR INTERDICTION
                                                      2, 3802
A-7
            AIR INTERDICTION
                                                      2, 1449
F-14 - -
            AIR INTERDICTION
                                                      1,8926
F-18
            AIR INTERDICTION
                                                      3, 1543
            ASW(SEA BAGED)
SH-3
                                                      0.2680
SH-2
            ASW(SEA BASED)
                                                      0. 6700
SH-60E
            ASW(SEA BASEID)
                                                      1.1142
5 - 3
            ASW(SEA BASED)
                                                      1. 5711
ATT
     SUES
            ASW(SEA BASED)
                                                      1,3849
FRIGATES
            ASW(SEA BASED)
                                                      0.8010
DSTROYERS
            ASW(SEA BASED)
                                                      0.4806
M-43
            ARMY GROUND
                                                      1.0347
M-60
            ARMY GROUND
                                                      1,6628
11-11
            ARITY GROUND
                                                      1.6628
M-351
            ARMY GROUND
                                                      Q. Q1Q5.
M-901
            ARMY GROUND
                                                      1,3303
            ARMY GROUND
M-2/M-3
                                                      1,3303
            ARMY GROUND
M-113
                                                      0.1848
MLRE
            ARMY GROUND
                                                      0.5543
TOWEL ART
            ARMY GROUND
                                                      0.9977
SELF-PROF
            ARMY GROUND
                                                      1,3303
PERSHING
            ARMY GROUND
                                                      0.5543
GLOME
            ARMY GROUND
                                                      0 8622
INFANTRY
            ARMY GROUND
                                                        9708
MORTERS
            ARMY GROUND
                                                     0. 9915
ROLES LNCH ARMY GROUND
                                                      0.0185
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4ଚ୍ଚଣ
4ଚ୍ଚଣ
                                                   1010
                                                        1010
0882
9300
                                                                                     4803
0778
                       1692
                                                                                 4808
                                                                                               666
                                                                                                   8606
                            4444
                                               5187
                                                                                                        8491
6079
                                                                                                                      2495
0337
                                                                                                                                                   9000
                                 0000
                                                                                                                  15cV
                                                                                                                                0337
                                                                                                                                    776
                                                                                                                                          4000
     ○33504433333322222~
NORMALIZED VALUES
                                                                                                                                                            RCLES LNCH
M-551
                                                                                                                                              RADIO RLAY
                                                                                                                                                        ACRET
                                                                       Sans
                                                                                                                                    DETROYERS
                                                                                     SELF-PROP
                                                                                                   TCIWED ART
                                                                                                                 FRIGATES
                                                                                                                           PERSHING
                                     INFANTRY
                                                                           M-2/M-3
M-901
                                                                                                        MORTERS
                                                                                         SH-60B
                                          F-14
COBRA
                                                                                                             GLCMS
                       A-10
                                                                                               M-40
                                                                                                                       2-45
                   F-18
                            F-15
                                                        09-W
                                                                                                                                MLRO
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CRITICALITY OF SHORTFALL

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(L	OC		3	ì	

C		STOCK	ร์สดะก		FE/	-	Mariate in the
F :	GÜAL	FILE	FALL	TRANSH	CMODITY	CRITIC-	FE /SHEFFLLL
COMMODITY	(UNITS)	(UNITS)	(%)	LATED	IMPORT.	ALITY	CHITICHLITY
DEALT	85.4	43.8	~4 3. 7	402 5	8.3	3325. 1	7.7
IN	4 2. O	190.6	353.8	Q. O	10. O	Q. Q	Ф. Ç
NICKEL	200 0	32. 2	-83. 9	437. Z	9, 8	4207. 6	$M_{\rm c}^{\rm eff} = 0$
ELUORSPAR ACID	1400. O	895.0	-36.1	389. 9	୨. 4	3683. 4	E 6
YRETHRUM	500 0	$\mathbf{Q}_{i},\mathbf{Q}_{i}$	-1 00. 0	45 3, 8	4. 1	1822 8	L ?

COMPOSITE IMPORTANCE (L00 3)

COBALT

	AMOUNT	% OF	COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CT)
INLANI	1350.	4 4 0	1, 92	0. 520	3 343
Lorocco	4 50.	2.14	1. 50	O. 667	1. 42위
BOTSWANNA	250	1. 19	0.71	1.494	1, 671
COUTH AFRICA	150.	0.71	1 15	0.841	0.601
AIRE	12500.	59. 52	0.71	1.404	83. 54 8
ZAMETA	3500	16 67	0.71	1.404	13 391
PHILIPPINES	5 0.	0.24	0. 92	1. 087	0, 25°
	4 00	1.90	Q. 92	1.087	2 070
JETRALIA NEW CALEDONIA	250.	1.19	0, 92	1. 087	1, 293
CANADA	1100	5 24	2, 89	0 346	1,813
. s	1000	4.76	2, 56	Q. 391	1.863
	TOTAL: 21000.	100 00			

COMPOSITE IMPURTANCE (L00 3)

TIN

MALAYSIA L	23700.	30, 30 	0. 72	. 2. 007	C -C - C - C - C - C - C - C - C - C - C
r · · -	23900.	35, 36	0. 92	1. 087	38 414
FRC	3000.	4.44	2. 47	0. 405	1、ブラム
::RAZIL	24 00.	3, 55	0.86	1. 162	4, 125
- DLIVIA	10300.	15, 24	0. 98	1. 020	15 548 •
UK ·	100.	0. 15	1. 96	0. 510	0.075
ANDONESIA	5 800.	8, 58	0. 92	1. 087	9, 322
- HAILAND	5900.	8. 73	0. 92	1. 087	9, 4 83
ii B	16100.	23, 82	2, 56	0.391	
AUSTRALIA	100.	0.15	• • -		9 319
DURCE	- 		0. 92	1.087	0. 161
	AMOUNT SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/01)
	A MOUTINET	% OF	COMPOSITE		

TOTAL: 67600. 100.00

COMPUSITE IMPORTANCE (LOC 3)

NICHEL

G	Anound	M 08	COMPOSITE	•	
SOURCE	5.6FLIED	- TOTAL	IMPORTANCE	I/CI	% C2/Cu 3
INLAND	1000.	0.33	1. 92	0 . 52 0	0.171
OUTH AFRICA	5000.	1. 64	1. 19	0.841	1 301
PHILIPPINES	5 000.	1.64	0. 92	1.087	1.75.
_AUSTRALIA	25000.	8 21	0. 92	1.087	8. FL4
ANADA	150000	49, 28	2, 89	O. 345	11 054
u S	8800 0.	28, 91	2, 56	O. 391	11 311
GREECE	& ⊙+.	0.20	1.96	0.510	0.101
ETHERLANDS	200.	0. 07	1, 96	0.510	0.034
. RG	100.	G. Q 3	1, 96	0.510	0.0 0.1 5
YUGOSLAVIA	50 0.	0.16	1. 96	0.510	0. 05 4,
99R	5000.	1. 64	Q. 94	1. 064	1 7/2
OM. REPUB.	15500.	4, 93	1, 53	0.656	3, 213
GUATAMALA	4000.	1 B1	1, 53	0. 656	O. 841
THIONESIA	5000.	1. 64	0. 92	1, 087	1. 789
•	TOTAL 202400	100.00			

HE: CONTROL - LOS CO

COMPOSITE IMPOSTANCE (LUC 3)

FLUORISPAR ACID

OURCE UCUTH AFRICA U S TALY FAIN EAST AFRICA	\$	AMOUNT SUPPLIED 180 70. 45. 100 25.	% OF TOTAL 22 34 8.70 8.07 12.42 3.11	COMPOSITE IMPORTANCE 1, 19 2, 56 1, 96 1, 96 0, 71	1/CI 0.841 0.391 0.510 0.510 1.404	M(1/CI) 13, 803 3, 40 2 4, 120 4, 238 4 , 238
EAST AFRICA THAILAND EXICO		15. 350.	1. 86 43. 48	0, 71 0, 92 2, 56	1, 404 1, 087 0, 391	4, 209 2, 025 17, 011
	ΤΠΤΔΙ -	805	100.00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

SOURCE SOUTH AFRICA USTRALIA LK KENYA WANDA ANZANIA	,	AMDUNT SUPPLIED 2000, 1500, 11000, 80000, 25000, 78000,	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 1. 19 0. 92 1. 96 0. 71 0. 71 0. 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0, 852 0, 820 2, 842 56, 853 17, 767 55, 433
	TOTAL	197500.	100, 00			

SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/01) COMP IMP	FE/SHORTFALL CRITICALITY		DSMALIZED TO 100
DBALT FINLAND MOROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3 343 1 420 1 671 0 601 83 548 23 350 0 259 2 070 1 293 1 811 1 863	7 72 7 72 7 72 7 72 7 72 7 72 7 72 7 72	25 81 11 03 12, 90 4, 64 644, 90 130 57 2, 00 15, 98 9, 98 13, 99 14, 38	- 1, 71 2, 00 0, 72 100, 00 23, 00 0 31 2, 48 1 55 2, 17
IN AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA ERAZIL PRC MALAYSIA	0, 161 9, 319 9, 483 9, 322 0, 075 15, 548 4, 125 1, 796 38, 414	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0, 171 1 381 1, 785 8, 924 17, 054 11, 311 0, 101 0, 034 0, 017 0, 084 1, 742 3, 230 0, 861 1, 785	10, 00 10, 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	0, 26 2, 14 2, 77 13, 84 26, 44 17, 54 0, 16 0, 03 0, 13 2, 70 5, 01 1, 34 2, 77
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 78 29, 09 35, 23 54, 20 37, 27 17, 31 145, 46	24, 93 4, 51 5, 46 8, 40 5, 78 2, 68 22, 56
YRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 852 0, 825 2, 842 56, 853 17, 767 55, 4 33	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 22 244, 55 76, 42 238, 43	0, 57 0, 59 1, 90 37, 92 11, 85 36, 97

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

4.	COURCE	COMMODITY	VALUE
3 #	SOURCE ZAIRE	CORALT	100 00
* 1	MENYA MENYA	PYRETERUM	37. 92 -
2 3	TANZANIA	FYRETHRUM	36.97
4	ZAMEIA	COBALT	28. 00
*	CANADA	NICKEL	26, 44
Ę.	SOUTH AFRICA	FLUORSPAR ACID	24, 92
• 7	MEXIGO	FLUORSPAR ACID	22. 54
8	US	NICKEL	17. 54
9	AUSTRALIA	NICHEL	19 84
10	RWANDA	PYRETHRUM	11.85
1.	SPAIN	FLUORSPAR ACID	8 40
2	EART AFRICA	FLUORSPAR ACID	5.77
13	ITALY	FLUORSPAR ACID	5, 46
4	DOM, REPUB.	NICKEL	5. 01
5	US	FLUORSPAR ACID	4. 51
16	FINLAND	CUBALT	4, 00
17	INDONESIA	NICKEL	2. 77
, ŝ	PHILIPPINES	NICHEL	2.77
19	USSR	NICHEL	2.70
20	THAILAND	FLUORSPAR ACID	2, 63
ī	AUSTRALIA	COBALT	2, 48
2	US	COBALT	2 . 23
23	CANADA	COBALT	2. 17
. 24	SOUTH AFRICA	NICHEL	2.14
15	ECTSWANNA	COPALT	2 00
26	UK	PYRETHRUM	1. 90
27	MOROCCO	COBALT	1. 71
8	NEW CALEDONIA	CODALT	t. 55
29	GUATAMALA	NICHEL	1. 34
30	SOUTH AFRICA	COBALT	0. 72
1 1	SOUTH AFRICA	PYRETHRUM	0. 57
ž		PYRETHRUM	0.53
33	_	COBALT	0. 31
~4		NICKEL	Q. 24
5		NICKEL	0.16
36		NICKEL	0.13
.37		NICKEL	0. 0 5
:-:		NICKEL	Q. QB
્રેટ્		NIT	0. 00
40		TIN	0. 00
1	BRAZIL	TIN	0. 00
. 2		TIN	0 . 0 0
43		NIT	0. 00
44		TIN	0. 00
5		TIN	0. 00
46	บร	TIN	0. 00
. 47	AUSTRALIA	TIN	0. 00
· -			

SCENARIO 5

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WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                      Level of Conflict S Media "
  1 32123
  W \subset_{\mathbb{Z}} \underline{\circ} : T
                                                                    5.0
                             7 Q
                                     5.0
                                             7. 0
                                                             JO. 0
                    10.0
                                                        -0.0357 0.0893 0.0357 0 1071
    /COÉF 0.1784 0.1784 0.1250 0.0893 0.1250 0.0357
                      Clevel of Unitality 5 Nedla 2
                                                                    <del>5</del>:
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             11
   Region
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             10.0
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   IVEOSE O. 1833 O 1933 O. 1200 O 0533 O 0933 O. 0837 O 0133 O 1047 O 0933
   7/00EF 0.4200
                      Level of Conflict 3 Media 3
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  Region
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   Medight
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    700EF 0 1786 0 1786 0 1786 0 1429 0 1071 0 0714 0 1479
                      Level of Conflict 3 Media 4
M Region
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             10. O
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    /DUEF 0 5882 0 2353 0 1176 0 0598
                 IMPLUENCE COEFFICIENTS OVER ALT LEVEL OF COMPLICTS
                 on the Importance of Controlling FACE region within its weak Machin
   Media 1
                                                                      Ξ.
    epion
   ./BUEF 0 0222 0 0222 0 0463 0 0444 0.0160 0 0045 0 0045 0 0114 0 004
   Media 2
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    egian
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    MO16 11
   Region
   1/COEF 0 0171 0 0171 0 0154 0 0068 0 0119 0 0080 0 0017 0 0136 0 0119 0 0095
   CACOBE O 0154
   Media 3
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   Region
   ·/OUEF 0 0278 ( 0228 0.0228 0.0183 0.0197 0 0091 0.0193
    Edita 4
   Region
               1
    7/00EF 0 0750 0 0301 0 0150 0 0075
   Importance of controlling ANY Region
   mithin its Media as compared to the Importance
    if controlling AMY Region of any other Media
   media 1
    760EF 0,0099 0,0099 0,0070 0,0050 0,0070 0,0020 0,0020 0,0050 0,0050 0,0020 0,0040
   -edia 2
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   Region
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    egion
   I/COEF 0, 0037 0, 0037 0, 0033 0, 0015 0, 0026 0 0019 0 0004 0, 0030 0, 0026 0 0019
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   1/COEF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
   egion
   1/COEF 0.0065 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE

		(FO) 37		
	ELEMENT	FORCE ELEMENT	CALCULATED N	
RANKING	NUMBER	NAME	VALUE	VALUE
1	17	CARRIER BUTTLE GROUP	0.141	10,000
÷,	1	AIR INTERITION	0.117	ව් 26:
3	3	ARMY GROUND	0.104	7.382
4	16	ATTA + SUPS	0.072	5. 135
Ś	10	SUPPACE COMPATARTS	0,060	4 24
6	1 🖫	THEATER NUMBERS WEATHN	0.004	ទី ខេរ្ជ
7	€'	RAPID DEFLOY	0.052	3 7 03
8	E	CAS	O. 044	3, 132
9	1.4	ASUCLANCE BASEDO	O. 043	3 987
10	27	AIR SUPERIORITY (AND BA	(BED) 0.041	2. 910
1.1	15	ARRISEA EAGED)	0.033	2 915
12	2:	AIR SUPERIUPITY COMIT BE	WEDN OLOGI	<u> </u>
13	21	AIR DEFENSE(SHIP MASED)	0, 029	
1 2	10	STRATEBIC BOMDER	0.027	1.794
155	25	SPOE BASED WEAPON(AIR C	(NTRL)0 020	1.416
1.6	29	ASAT(SPACE BASED)	0,013	0. 924
17	18	MINE WARFARE	0.013	0. 891
18	2	AMPHIRITUS ASSAULT	0 011	0. 7 57
19	19	SPECIAL OPERATIONS	0.010	0. 725
20	28	ASAT (LAMI DAREID)	0, 007	0 510
21	20	AIR DEFENSE (LANG) IACEI)	0, 004	0.278
22	Ş	SPIE-BASED WEAMON(LND)	JNTRL) 0, 003	0 212
23	30	SPOE BASEL WEAPON (SEA (ONTRL) 0 002	O. 118
24	27	ABM (SPALE BASET)	0.000	0.000
25	26	ABM(LAND BASED)	<u>0, 000</u>	o . 000
26	24	INTERCEPTOR AIRCRAFT	0, 000	0.000
27	1 1	SLPM	Q , 000	0.000
28 28	7	10BH	0, 000	o opo
29	Ś	CIVIL DEFENSE	0, 000	<u>0, 000</u>
30	4	CEM	0, 000	0, 000

COMMODITY IMPORTANCE (LOC 3)

·	IE:AL	~
1 1	H : ΔI	- 1

AIR INTERDICTION	5.71
ARMY GROUND	4, 52
CAS	1, 75
ICEM	0, 00
STRATEGIC BOMBER	1. 79
SLBM	O, QO
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10, 00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0, 00
ASAT(LAND BASED)	0 51
	34, 99

TIN

AIR INTERDICTION	5,20
ARMY GROUND	1 92
CAS	1.81
STRATEGIC ROMBER	1.79
ARW(LANIE BARELI)	$\mathcal{J}(-CV_{+}^{2})$
ASW(SEA BASED)	1.11
ATTACK SUPS	5.43
CARRIER BATTLE GROUP	10.00
MINE WARFARE	O. 8-1
SURFACE COMEATANTS	4. 25
AIR SUPERIORITY(LAND BASSE)	2. 94
AIR SUPERIORITY(SHIP BASED)	2, 29
INTERCEPTOR AIRCRAFT	0,00
ABM(LAND BASED)	0.00
	41.18

NICKEL

AIR INTERDICTION	5 AQ
ARMY GROUND	4, 92
CAS	1 7/2
STRATEGIC BOMBER	1.79
ASW(SEA BABLE)	1 71
ATTACK SUBS	5.13
CAFRIER BATTLE GRUUP	10° 00°
MINE WARFARE	C Erec
SURFACE COMBATANTS	4 27
AIR SUPERIORITY(LAND BASED)	2.91
AIR SUPERIORITY(SHIP DASSI)	7.
INTERCEPTOR AIRCRAFT	0.00
	A (
	41, 21

ELHOPEPAR ACTO

FLUORSPAR ACID	
AIR INTERDICTION	7. 13
AMPHIBIOUS ASSAULT	0. 76
ARMY GROUND	3, 69
CAS	2, 05
1CBM	Q , QO
STRATEGIC BOMBER	1. 79
SLBM	0, 00
ASW(LAND BASED)	3, 08
ASW(SEA BASED)	1, 63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP MASED)	2, 28
INTERCEPTOR AIRCRAFT	0. 00
ABM(LAND BABED)	0, 00

PYRETHRUM

ARMY GROUND	₹ 6 6
JIVIL DEFENSE	0.00
ASM(SEA BALED)	0 14
CARRIER PATTLE GROUP	10.00
SURFACE COMBATANTS	4 25
	17. OE
	GRMY GROUND CIVIL DEFENSE ASW(SEA BASID) CARRIER PATTLE GROUP SURFACE COMBATANTS

COMMODITY NORMALIZED IMPORTANCE NICKEL 10 00

TATA CINEEL	10.00		1	-
FTIN	၅ မှ	(4 :	1
1 FLUORSPAR ACID	9, 60	(200	e .
PORALT	용 4호	(3.4	Ī :
O FYRETHRUM	4 14	(1 -	Q.
(C.) ■				

39. 37

COBALT		
A=10	CAS	70 700.
COFFA	ΓA:	7 2. 7 334
F-4	AIR INTERDICTION	4명 4명년) 10명 5 050
	CAC	103,5050 7 2704
F-16	AIF INTERMITTION	71 8785 71 8785
	CAE	- 보고 조기하다 유고 경향기당
ART. ACRET		3 4347
RADIO RLAY	AIR INTERLICTION	3,2345
	CAS	2. 7275
F-111	AIR INTERDICTION	109,3813
H-6	ALF INTERLIGTION	38 8144
F=15	AIR INTERDISTION	57.5028
Ĥ-7	AIR INTERDICTION	51.7925
F-14	AIR INTERDICTION	43 1271
F-19	AIR INTERDICTION	71. 영우공학
9H-3	ASW(SEA BASED)	6 0775
SH-2	ASW(SEA BASED)	
SH-60E	ASW(SEA BASED)	15. 1937
8-3	ASW(SEA BASEI)	23. <u>6</u> 346
ATT. SUBS	ABW(SEA BASED)	34, 7284 24, 1169
FRIGATES	ASW(SEA BASET)	14. 4701
DETROYERS	ASW(SEA BASED)	8 6811
M-4:	ARM: GROUND	37, 9369 37, 9369
M-60	ARMY GROUNI	61 0102
11-1	ARMY GROUND	6 7. 7930
M-551	ARMY GROUNT	0 2260
M-901	ARMY GROUNI	54, 2384
M-2 (M-3	ARMY GROUND	47 45 4
M-113	ARMY GROUND	5, <u>2732</u>
MLRB	ARMY GRUUND	20.3394
TOWED ART.	ARMY GROUND	27, 1192
SELF-PROP	- · · - ·	36 1589
PERBHING	ARMY GROUND	18, 0795
GLOMS	APMY GROUND	30, 1374
INFANTRY	ARMY GROUND	7. 5331
MORTERS	ARMY GROUND	36, 9122
ROLES LNOH	ARMY GROUND	1. 5820

ഗ	10, 0000																															0.2811		_	
NORMALIZED VALUES	F-111	F-16	F-4	A-10	F-19	-	09-W	1	M-901	A-7	COERA	M-2/M-3	F-14	A-6	M-48	MORTERS	SELF-PROP	(M) -	GLCMS	FD AR	ATT, SURS	309-HS	MERS	FERGHING	9H-2	SATES	DSTROYERS	FANTE	O-I-O	AP.	ं ।	7	HUNI METER	 	

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TIN
A-10
            CAS
                                                    72, 7336
COLRA
            CAS
                                                    64, 6521
F-4
            AIR INTERDICTION
                                                   103, 5050
            CAP
                                                     7 27 27
F-16
            AIR INTERDICTION
                                                    71. 8725
            CAS
                                                    40, 4075
APT. ACRET CAS
                                                     2. 6367
BADIO REAY AIR INTERDICTION
                                                     3 2345
            CAS
                                                     2. 7275
F-111
            AIR INTERDICTION
                                                   129, 3813
A-6
            AIR INTERDICTION
                                                    43 6662
F-15
            AIR INTERDICTION
                                                    57, 5023
6~7
            AIR INTERDICTION
                                                    51, 7525
F-14
            AIR INTERDICTION
                                                    48, 5180
F-18
            AIR INTERDICTION
                                                    80, 8633
SHES
            ASW(SEA BASETO)
                                                     5, 2093
SH-2
            ASW(SEA BASED)
                                                    13, 0231
らっとの証
            ASW(SEA BASED)
                                                    20, 2500
8-3
            ASW(SEA BASED)
                                                    34, 7284
ATT SUBE
            ASW(SEA BASED)
                                                    14, 4701
FRIGATES
            ASW(SEA BASED)
                                                    14, 4701
DISTROYERS
            ASW(SEA BASED)
                                                     8, 6821
M-48
            ARMY GROUND
                                                     4, 2185
M-60
            ARMY GROUND
                                                     6. 7790
M-1
            ARMY GROUND
                                                    37, 6655
M-551
            ARMY GROUND
                                                     0.0753
M-901
            ARMY GROUND
                                                     6, 7798
M-2/M-3
            ARMY GROUND
                                                     6. 7798
M-113
            ARMY GROUND
                                                     0. 7533
MLRE
            ARMY GROUNT
                                                    10, 1697
TOWED ART.
            ARMY GROUND
                                                     4 5199
SELF-PROP.
            ARMY GROUND
                                                     6.0265
PERSHING
            ARMY GROUND
                                                    15, 8195
GLEMS
            ARMY GROUND
                                                   26, 3609
INFAUTEY
            ARMY GROUND
                                                   60, 2649
MURTERS
            ARMY GROUND
                                                    5, 2732
ROLES LNOH ARMY GROUND
                                                    0.2260
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	S	67	$\hat{\mathcal{C}}$	(N	4	Ç.	()	44	S		6	T _O .	(i)	0	Š	<u>()</u>	1	Ţ	Ö	1 /200	5	5	r.		4/	4	40	₽	(0)	21	0.281	=	Ē
TZED VALUES							}									-	(r	UBS			ERS	m			9	il AY	e e		AFT		ACERT	五三五三	
NORMAL	F-111	F-16	F-4	F-18	A-10	COBRA	INFANT	F-15	A-7	F-14	4-6	1 -E	ტ - ტ	SHUTS	SH-60B	PERSHIP	FRIGATE	ATT, SUI	SH-2	MLRS	DSTROY	M-2/M-	M-901	M-40	SELF-FI	RADIO F	MORTER	SH+3	TOMED (M-40	AET A	 1 . 4 1 . 6.1	

NICKEL		
A-10	CAS	72, 7336
COFRA	CAS	48 4891
F-4	AIF INTERDICTION	7 7. 6 288
	CAS	5. 4 550
F=16	AIR INTERDICTION	71, 8785
	CAS	40, 4075
AFT ACFET	CAS	2 4245
RADIO REAY	AIR INTERBIETION	3 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	38, 8144
F-15	AIR INTERDICTION	57, 5028
G-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48 5180
F-18	AIR INTERBICTION	80 8633
SH-3	ASW(SEA BASED)	6, 945.7
SH-2	ASW(SEA BASED)	17, 3642
94-60B	ASW(SEA PASED)	27. 010-
5-3	ASW(SEA BASEI)	34, 72:4
ATT, SUBS		43 4104
FRIGATES		26 0463
DSTROYERS		15, 6278
M-48	ARMY GROUND	42, 1854
M-60	ARMY GROUNI	67, 7980
M-1	ARMY GROUND	75, 3311
MH551	ARMY GROUND	0. 75 33
M-901	ARMY GROUND	47, 4586
M-2/M-3	ARMY GROUND	54, 2354
M-113	ARMY GEOUND	5, 2732
MLRS	ARMY GROUND	20 3394
	ARMY GROUND	36.1589
SELF-PROP	ARMY GROUND	48 2119
PERSHING	ARMY GROUND	18, 0795
GLOMS	ARMY GROUND	22, 5993
INFANTRY		37 6655
MORTERS	ARMY GROUND	15, 8195
	ARMY GROUND	0. 2260

FLUORSPAR (ACID	
A-10	CAS	50, 9170
COFRA	CAS	4명, 4명위1
F-4	AIR INTERDICTION	129, 3813
	CAS	9 0917
F-16	AIR INTERDICTION	EP E481
	CAS	50, 5094
AFT. ACFET	049	3 6367
RADIO RLAY	AIR IMPERDICTION	3 2345
	CAS	2. 7275
F-111	AIR INTERDICTION	161 7265
A-6	AIR INTERDICTION	49 5180
F-15	AIR INTERDICTION	71 9785
£:−7	AIR INTERDICTION	64 6906
F-14	AIR INTERDICTION	53 905°
F-18	AIR INTERDICTION	89, 8481
SH-3	ASW(SEA BASED)	6. 9457
SH-2	ASW(SEA BASED)	17, 3642
SH-60%	APW(SEA BASED)	33 7637
9-3	ABW(SEA BASED)	43, 4104
ATT. SUBS	ABW(SEA BABED)	28, 9403
FRIGATES	ASW(BEA BASED)	20, 2382
DSTROYERS	ASW(SEA BASED)	12, 1549
M-48	ARMY GROUND	12, 6556
M-60	ARMY GROUND	20 3394
M-1	ARMY GROUND	22. 5993
M-551	ARMY GROUND	0. 2260
M-901	ARMY GROUND	54 2984
M-2/M-3	ARMY GROUND	54. 2384
M-113	ARMY GROUND	6, 0265
MLRS	ARMY GROUND	16 9495
TOWED ART.	ARMY GROUND	22 5993
SELF-PROP.	ARMY GROUND	30.1314
PERBHING	ARMY GROUND	15, 8195
GLOMS	ARMY GROUND	26, 3659
INFANTRY	ARMY GROUND	60. 24 4 9
MORTERS	ARMY GROUND	26, 3659
ROLES LNOH	ARMY GROUND	0. 2260

NIRMALIZED	VALUES	
F-111		10,0000
F-15		8 6707
F' - 4!		8. 5≪
A-10		5 6216
F=18		5 5554
F-15		4 4444
A-7		4 0000
INFANTRY		3. 7263
1 2 M-3		3, 3537
M-901		3.3537
F-14		3.3333
A-6		3, 0000
COPRA		2 9982
8+3		2 6542 2 0877
SH-60P		2. 0877
SELR-PRIF.		1. 8411
ATT. SUBS		1, 7895
MORTERS		1.6303
GLCM5		1.6303
TOWEL ART		1. 3974
M-1		1. 3974
M-60		1, 2576
FRIGATES		1, 2526
SH-2		1. 0737
MEFE		1.0480
위문유용H110대		0. 978.3
M48		0. 7825
DETROYERS		0.7516
SH-3		0.4295
M-113		0.3775
RADIO RLAY		0.3686
ART. ACRET		O. 2260
ROLES LNOH		0.0140
M-551		0.0140

PYRETHRUM

ATT, SUBS	ASW(SEA MASED)
M-48	APRY GROUND
M-6.0	ARMY GROUND
M-113	ARMY GROUND
TOWED ART.	ARKY GROUND
SELF-PROP.	ARMY GROUND
INFANTRY	ARMY GROUND
MORTERS	ARNY GROUND

14, 4701 29, 5298 47, 4586

5. 2732 31. 6390 42. 1804

75, 3311 36, 9122

NORMALIZED VALUES

INFANTRY	10, 0000
M-60	6. 300 0
SELF-PROP.	5 . 6000
MORTERS	4, 9000
TOWED ART.	4, 2000
M-49	3, 9200
ATT. SUBS	1, 9209
M-113	0. 7 000

```
ALL COMMODITIES
A-10
                                                     3.0912
            CAS
CUBRA
            CAS
                                                     2, 1012
                                                     4 1402
F-4
            AIR INTERDICTION
                                                     0. 2909
            CAS
F-16
                                                     g. C548
            AIR INTERDICTION
                                                     1.71/5
            CAB
ART. ACRET CAS
                                                     0.1333
RADIO REAY AIR INTERDICTION
                                                     O=1.5\,\,\mathrm{MeV}
            040
                                                     0.1091
                                                     5, 4987
            AIR INTERDICTION
F-111
                                                     1.6981
A-6
            AIR INTERBLOTION
F-15
            AIR INTERDICTION
                                                     2 4439
£-7
            AIR INTERDICTION
                                                     2, 1995
F-14 - -
            AIR INTERDICTION
                                                     1 9407
F-18
                                                     3, 2345
            AIR INTERDICTION
                                                     0.2518
SH-3
            ASW(SEA BASED)
SH-2
            ASW(SEA BASED)
                                                     0.6295
                                                     1. 0447
SHHAOD
            ASW(SEA BASED)
9 - 3
                                                     1 4760
            ASW(SEA BASED)
ATT. SUBS
            ASW(SEA BASED)
                                                     1 2541
FRIGATES
            ASW(SEA BASED)
                                                     0.7524
            ASW(SEA BASED)
                                                     0.4515
DSTROYERS
                                                     1, 2656
            ARMY GROUND
M-48
M-60
            ARMY GROUND
                                                     2,0339
M-1
            ARMY GROUND
                                                     2,0339
M-551
            ARMY GROUND
                                                     0.0128
M-901
            ARMY GROUND
                                                     1, 6272
M-2/M-3
            ARMY GROUND
                                                     1 6272
M-113
            ARMY GROUND
                                                     0, 2260
MLRS
            ARMY GROUND
                                                     0.6780
TOWED ART.
            ARMY GROUND
                                                     1, 2204
SELF-PROP
            ARMY GROUND
                                                     1.6272
PERSHING
            ARMY GROUND
                                                     0, 6780
            ARMY GROUND
                                                     1, 0546
GLCMS
            ARMY GROUND
                                                     2,4106
INFANTRY
MORTERS.
            ARMY GROUND
                                                     1, 2123
ROLES LNOH ARMY GROUND
                                                     0.0226
```

7

			2 2057 1 9180 1 9035 1 3684 1 2380 1 2380 1 1447 0 0210 0 4779	
NORMALIZED VALUES F-11 F-14 F-18 A-10 F-15	INFANIRY A-7 CUBRA M-1 M-60 F-14	SELF-PROP. M-2/M-3 M-901 5-3 M-48 ATT. SUBS	MORTERS GLCMS SH-60B FRIGATES PERSHING MLRS SH-2 DSTROYERS	C 1 K - 1

CRITICALITY OF SHORTFALL

Al.	1. F	Ε.,
(1	TUT:	21

3		STOCK	SHORT		FE/		MULLION ALLER
G.	إ بسائقًا	Paul	FALL	TRA' ==	CMODULTY	CRITIC-	FF
COMMODITY	(UNITE)	(UNITE)	(5.)	LATED	IMPORT.	ALITY	Collin Hally
OBALT	୧୭ 4	2 (9) (8)	~46 7	402 5	ଥ, 5	3418.1	• • • • • • • • • • • • • • • • • • •
IN	42.0	190 6	357 B	$\phi \cdot \phi$	10.0	$\boldsymbol{O},\;\boldsymbol{O}$	ō A
NICKEL	3000 O	20. D	-용당 원	427 7	10. O	4377 1	
FLUORSPAR ACID	1400 0	\$95.7v	-36 1	389 P	9.6	9744 3	€' €
"YRETHRUM"	5000	O - C	Q 4004	453. E	4 1	$1 \pm i \in \mathcal{N}$	۲ -

COMPOSITE IMPORTANCE (LOC 3)

CORALT

SOURCE INLAND 'DROCCO BOTSWANNA COUTH AFRICA AIRE ZAMEIA PHILIPPINES USTRALIA NEW CALEDONIA CANADA		AMOUNT SUPPLIED 1350 450 250, 150 12500, 3500, 400, 250 1100, 1000	2 OF TOTAL 6 43 2 14 1, 19 0, 71 59, 52 16, 67 0, 24 1, 90 1, 19 5, 24 4, 76	COMPOSITE IMPORTANCE 1, 92 1, 50 0, 71 1, 19 1, 80 0, 71 0, 92 0, 92 2, 89 2, 56	1/01 0.520 0.667 1.404 0.841 0.954 1.404 1.087 1.087 1.087 0.346 0.391	M(1/01) 8,849 1,419 1,671 0,071 0,071 2,007 2,007 0,070 1,073 1,863
	TOTAL:	21000	100.00	and the	0.0.1	• • • • • •

COMPOSITE IMPORTANCE (LOC 3)

TIN

•		AMOUNT	% OF	COMPOSITE		
-:OURCE		SUFFLIED	TOTAL	IMPORTANCE	1/0I	%(1/CI)
AUSTRALIA		100.	0. 15	0. 92	1, 097	0.161
11 S		16100.	23, 82	2, 56	0. 391	9.319
CHAILAND		5900.	8. 73	0. 92	1. 087	9, 483
INDONESIA		5800.	8, 53	0. 92	1, 087	9, 322
UE:		100.	0. 15	1. 96	0.510	0. 075
OLIVIA .		10300.	15, 24	0. 98	1. 020	15) 543
FAZIL		2400.	3, 5 5	0.86	1. 162	4. 125
PRC		3000.	4.44	2. 47	0. 405	J. フ ぞる
MALAYSIA		23900.	35, 36	0. 92	1. 087	38 414
•	TOTAL:	6 7600.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

NICKEL

••	AMOUNT	% OF	COMPOSITE	_	
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1701	5.010.10
TINLAND	1000.	0.33	1. 92	0. 520	0.171
OUTH AFRICA	5000.	1. 64	1. 19	0.841	1.390
PHILIPPINES	5 000.	1.64	Q. 92	1.087	1 7FC
AUSTRALIA .	25000.	8, 21	0.92	1.057	€ ₹
TANADA 7 T	150000.	49, 28	2 89	O. 349	17.00.4
J 8	8 9000.	28, 91	2 56	0. 3위1	11 311
GREEGE	6 00.	0.20	1.96	0.510	0.101
ETHERLANDS	200.	0.07	1. 96	0.510	Q Q34
FO	1 Q D.	6.03	1.55	0.516	₹ ₹17
YUGOSLAVIA	500.	0.16	1. 96	0.510	O. O. 4
USSR	5 000.	1.64	0.94	1,061	1. 742
OM. REFUE.	15000.	4, 93	1.53	O. 656	2. 23
BUATAMALA	4 000.	1.31	1. 53	O. 654	0.861
INDONESIA	5000.	1. 64	0. 92	1, 097	1 780
•	TOTAL: 304400.	100, 00			

COMPOSITE IMPORTANCE

(LUC 3)

FLUGREPAR ACID

COURCE COUTH AFRICA U S [TALY CPAIN EAST AFRICA	AMOUNT SUPPLIED 190 70. 65. 100. 25	% OF TOTAL 22 %6 8.70 8.07 12.42 3.11	COMPOSITE IMPORTANCE 1. 19 2. 56 1. 96 1. 96 0. 71	1/01 0, 841 0, 391 0, 510 0, 510 1, 404	%(1/CI) (8.80) (8.402) (4.120) (6.338) (4.339)
EAST AFRICA THAILAND	25 15.	3. 11 1. 86	0. 71 0. 92	1. 404 1. 087	4, 339 2, 025
EXICO	350.	43 48 	2, 56	0.381	17 011

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

TOTAL: 805. 100.00

LOURCE SOUTH AFRICA TUSTRALIA K KENYA FWANDA		AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000.	% OF TOTAL 1. 01 0. 76 5. 57 40. 51 12. 66	COMPOSITE IMPORTANCE 1, 19 0, 92 1, 96 0, 71 0, 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0.852 0.820 2.842 56.855 17.767
ANZANIA		25000. 7 8000.	12. 66 39. 49	0. 71	1. 404	55, 433
	TOTAL:	197500.	100, 00			

SOURCE IMPORTANCE (LOC 3)

SQURGE	%(1/CI)	FE/SHORTFALL CENTIVALITY	NOTAL	ORMALIZED TO 100
FINLAND MOROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3 343 1, 429 1, 671 0 401 33, 002 23 393 0 209 2, 070 1, 293 1, 813 1, 843	7 81 7 81 7 81 7 81 7 81 7 81 7 81 7 81	26, 11 11, 16 13, 05 4, 69 257, 71 182, 68 2, 02 16, 16 10, 10 14, 16 14, 55	10 17 . 4.31 5 06 1.82 100.00 70 88 0 78 6 27 3 91 5 65
AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA PRAZIL FRO MALAYSIA	0, 161 9, 319 9, 483 9, 327 0, 075 15, 548 4, 125 1, 796 98, 414	0, 00 0 00 0, 00 0 00 0, 00 0, 00 0, 00 0, 00	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 00 0: 00 0: 00 0: 00 0: 00 0: 00 0: 00 0: 00
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0, 171 1, 381 1, 785 8, 924 17, 054 11, 311 0, 101 0, 034 0, 017 0, 084 1, 742 3, 230 0, 861 1, 785	10, 00 10, 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	0 6/4 5 3/6 6 93 34, 2 66, 17 43 69 0, 12 0, 07 0, 07 0, 03 6, 76 12, 52 3, 34 6, 93
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	62, 31 11, 29 13, 67 21, 04 14, 47 6, 72 56, 47
PYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 852 0, 825 2, 842 56, 855 17, 767 55, 433	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 21 244, 29 76, 34 238, 18	94. 79

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

			_
. #	SOURCE	COMMODITY	VALUE
1	ZAIRE	COHALT	100.00
2	KENYA	PYRETHRUM	94. 70
, 3	TANZANIA	PYRETHRUM	92 42
14	ZAME IA	COBSUT	7 0 Se
5	CANADA	NICKEL	66.17
Ē	BOUTH AFRICA	FLUORSPAR ACID	62. 41
7	MEXICO	FLUORSPAR ACID	56.47
8	U S	NICHEL	43 EP
. 9	AUSTRALIA	NICKEL	34 63
10	RWANDA	PYRETHRUM	29. 62
1	SPAIN	FLUOFSPAR ACID	21.04
_2	EAST AFRICA	FLUORSHAR ACID	14. 47
13	ITALY	FLUORSPAR ACID	13. 67
4		NICKEL	13. 5 7 12. 53
, 5	DOM. REPUB U S	FLUORSPAR ACID	12, 03 11, 29
16	FINLAND	COBALT	10. 13
	INDONESIA	NICKEL	6. 93
ŝ	PHILIPPINES	NICHEL	6 93 6 93
.19	USSE	NICKEL	6 76
20	THAILAND	FLUORSFAR ACID	5. 7 2
1 12	AUSTRALIA	CORALT	6 27
	U 9	COBALT	5, 65
23	CANADA	COBALT	5.49
4	SOUTH AFRICA	NICKEL	5, 36
5	BOTSWANNA	COBALT	5 06
26	UH:	PYRETHRUM	4, 74
. 27	MOROCCO	COBALT	4, 33
• 8	NEW CALEDONIA	COBALT	3. 92
∠ 9	GUATAMALA	NICKEL	3, 34
30	SOUTH AFRICA	COBALT	1, 82
1	SOUTH AFRICA	PYRETHRUM	1.42
2	AUSTRALIA	PYRETHRUM	1.33
33	PHILIPPINES	COBALT	0. 78
4	FINLAND	NICKEL	0, 66
5	GREECE	NICKEL	0. 39
36	YUGOSLAVIA	NICKEL	0.33
37	NETHERLANDS	NICKEL	0. 13
3	FRG	NICKEL	0. 07
- 9	MALAYSIA	TIN	0. 00
40	FRC	TIN	0. 00
: 1	BRAZIL	TIN	0. 00
2			0. 00
	BOLIVIA	TIN	
43	UK	TIN	0. 00
^ 4 =	INDONESIA	TIN	0. 00
5	THAILAND	TIN	0.00
4/-	US	TIN	0, 00
47	AUSTRALIA	TIN	O . QQ

SCENARIO 6

```
Level of Conflict 3 Media 1
                  2
                                  4
Feed on
           1
                                                ÷.
                                         7. 0 10. 0
Weight
                         7. 0
                                 5. 0
                                                      \lambda = 0
                                                               <u> 7</u>
        10.0
                 10.0
I/COEF 0.1563 0.1563 0.1094 0.0781 0.1094 0.1563 0.0313 0.0751 0.0713 0
                   Level of Conflict a Media 1
          1
Region
Region
          11
Wellin
                  i \cap \phi
                         Fr.
                                        7.0
                                               \Sigma_{i}(0)
          10 0
                                 4 ()
                                                        10 - 0
Weigit
          . .
1/COEF 0 1190 0.1190 0.1071 0.0476 0.0833 0.0595 0.1190 0 0852 0.0833 0
I/CUEF 0. 1071
                    Level of Conflict 3 Nedic 3
Region
                          3
                                  44
Weight
                  10.0 10.0 10.0
                                                4. 0
         <u>10.0</u>
                                        \epsilon \cdot 0
I/COEF 0 1667 0.1667 0.1667 0.1667 0.1000 0.0667 0.1667
                   Level of Loutliet 3 Media 4
Region
           1
                          3
                  4 ()
Weight
                         2.0
         1C/C
                                  1. O
1/00EF 0 5885 0 2358 0 1175 0 0500
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its or,
Media 1
Recipu
1/6UEF 0 0100 0 0200 0 0140 0 0100 0 0140 0 0100 0 0000 0 0040 0 0100 0
Madale 2
Flect one
                           3
                                   4
Media 11
Region
1/00EF 0 0152 0.0152 0.0197 0 0061 0.0107 0 0076 0.0152 0 0122 0 0107
I/COEF 0 0137
Media
Region
I/COSF 0 0213 0 0213 0 0214 0 0213 0 0129 0 0085 0 0213
Media 4
Region
I/CORF 0.0772 0.0301 0.0150 0.0075
Importance of controlling ANY Region within its Media as compared to the Importance
of controlling ANY Region of any other Media
                                          5
                           3
                                                  6
Region
            1
```

WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA

=		N.I. · P.M.S.	VALUE	VALUE
RANKING	NUMBER	NAME CARRIER BATTLE GROUP	0.139	10,000
1			0.110	7 863
2 3	1	AIR INTERDICTION	0.095	
3	. 3	ARMY GROUND	0.073	
4	16	ATTACK SUBS	0.073	
5	19	SURFACE COMBATANTS	0.058	
<u> F</u>	8	FAFID DEFLOY	0.054	
7	12	THEATER NUCLEAR WEAPON	• • • • •	
ଞ୍	14	ASW(LAND BASED)	0.043	ଞ୍ଜ ପ୍ରକ୍ର ଅନ୍ୟୁଷ୍ଟ
9	6	CAS	0.040	
10	22	AIR SUPERIORITY(LAND BASED)		2, 731
11	15	ASW(SEA BASED)	0. 032	2, 312
12	23	AIR SUPERIORITY(SHIF BASED)		2. 165
10	21	AIR DEFENSE(SHIP BASED)	0. 02 7	1.954
14	1 O	STRATEGIC BOMBER	0.025	1.765
7)5	25	SPCE BASED WEAPON(AIR ONTRL	0.019	1. 994
16	13	SPECIAL OPERATIONS	0.015	1.050
17	29	ASAT(SPACE BASED)	0.013	0, 935
18	1⊜	MINE WARFARE	0.013	0. 924
• •	=	AMPHIBIOUS ASSAULT	0.010	0.713
20	28	ASAT(LAND BASED)	0. 007	0. 516
21	20	AIR DEFENSE(LAND BASED)	0.004	0.264
22	9	SPCE-BASED WEAPON(LND CNTRL		6 201
23	30	SPCE BASED WEAPON(SEA CNTRL		0.118
24	27	ABM(SPACE BASED)	0.000	0.000
25	26	ABM(LAND BASED)	0.000	0,000
26				
-7	24	INTERCEPTOR AIRCRAFT	0 000	0.000
•	24 11	INTERCEPTOR AIRCRAFT SLRM	0, 000 0 000	0,000 0.600
구면:	11	SLBM	0. 000	0.000
28 29				

COMMODITY IMPORTANCE (LOC 3)

CORALT

AIR INTERDICTION	5.44
ARMY GROUND	4, 19
CAS	1.62
ICBM	0.00
STRATEGIC BOMBER	1.76
SLEM	0.00
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 29
ATR SHEERTORITYO AND BASED)	2, 73
AIR SUPERIORITY(SHIP BASED)	2.16
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0. 52
	33. 99

MIT

AIR INTERDICTION	5. 61
ARMY GROUND	1, 78
CAS	1.77
STRATEGIC BOMBER	1.76
ASW(LAND BASED)	3 O [©]
ASW(SEA BASED)	1.11
ATTACK SUBS	5 23
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0.92
SURFACE COMBATANTS	4, 2위
AIR SUPERIORITY(LAND BASED)	2 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	0, 00
ABM(LAND BASED)	0.00
	40, 47

NICKEL

AIR INTERPICTION	5 , 33
ARMY GROUND	4 56
CAS	1.60
STRATEGIC BOMBER	1. 76
ASW(SEA BASED)	1.71
ATTACK SUBS	5 . 23
CARRIER BATTLE GROUP	10,00
MINE WARFARE	0, 92
SURFACE COMBATANTS	4, 29
AIR SUFERIORITY(LAND BASED)	2, 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	O. QO
	40, 30

Fi	LIGREPAR	Δ T T Γ

FLOURSPHR HUID	
AIR INTERDICTION AMPHIBIOUS ASSAULT ARMY GROUND	6, 79 0, 71 3, 42
CAS ICBM	1. 90 0. 00
STRATEGIC BOMBER SLBM ASW(LAND BASED)	1, 76 0, 00 3, 09
ASW(SEA BASED) CARRIER BATTLE GROUP	1. 63 10. 00
SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	4, 29 2, 73 2, 16
INTERCEPTOR AIRCRAFT ABM(LAND BASED)	0. 00 0. 00

FYRETHRUM	F'	ΥI	ŔΕ	TH	K!	_!M
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A F. MANA - C. P. C. L. L. L. T.	<u> </u>
ARMY GROUND	2.43
CIVIL DEFENSE	Q. QQ
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10, 00
SURFACE COMBATANTS	4, 29
	16, 92

COMMODITY NORMALIZED IMPORTANCE

	TIN	10, 00	(4¢	47
j	TIN NICKEL	9, 96	(40	30
	FLUORSPAR ACID	9, 51	(31	50
	COBALT	8 40	(3.1	₹.÷
	FYRETHRUM	4.18	Ċ	16.	0.1
1		· · • -			

38.50

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COBALT
A-10
            CAS
                                                    67, 4028
COBSA
            CAE
                                                    44 9352
F-4
            AIR INTERDICTION
                                                    98. 5202
            CAS
                                                     6,7403
F-16
            AIR INTERDICTION
                                                    68. 4168
            CAB
                                                    37 4460
ART. ADRET DAS
                                                     3, 3701
RADIO RLAY AIR' INTERDICTION
                                                     3,0788
            CAS
                                                     2, 5276
F-111
            AIR INTERDICTION
                                                   123, 1503
A-6
            AIR INTERDICTION
                                                    36 9451
F-15
            AIR INTERBICTION
                                                    54, 7335
4-7
            AIR INTERDICTION
                                                    49, 2601
F-14
            AIR INTERDICTION
                                                    41,0501
F-18
            AIR INTERDICTION
                                                    68, 4168
SH-3
            ASW(SEA BASED)
                                                     6. 0683
SH-2
            ASW(SEA BASED)
                                                    15, 1708
SH-60B
            ASW(SEA BASED)
                                                    23, 5990
9-3
            ASW(SEA BASED)
                                                    34 6761
ATT.
    SUBS
            ASW(SEA BASEL)
                                                    24, 0807
FRICATES
            ASW(SEA BASED)
                                                    14.4484
DSTROYERS
            ASW(SEA BASED)
                                                     8 6690
M-4≘
            ARMY GROUND
                                                    35 2004
M-60
            ARMY GROUND
                                                    56, 5724
M-1
            ARMY GROUND
                                                    62, 8582
M-551
            ARMY GROUND
                                                    0.2025
M-901
            ARMY GROUND
                                                    50, 2866
M-2/M-3
            ARMY GROUND
                                                    44.0008
M-113
            ARMY GROUND
                                                     4.8890
MLRE
            ARMY GROUND
                                                    18, 8575
TOWED ART.
            ARMY GROUND
                                                    25, 1433
SELF-FROR
            ARMY GROUND
                                                    33 5244
PERSHING
            ARMY GROUND
                                                    16 7622
GLCMS
            ARMY GROUND
                                                    27. 9370
INFANTEY
            ARMY GROUND
                                                     6. 9842
MORTERS
            ARMY GROUND
                                                    34, 2228
ROLES LNOH ARMY GROUND
                                                     1. 4667
```

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ひららうちょう よん ようきょうえんえん きょしょしょしょうひりひりりりり
NORMALIZED VALUES
                                                                           FLAY
                                                                                  HILES LNCH
                                                                 FRIGATES
DSTROYERS
INFANTRY
                                         MORTERS
SELF-PROP
                                                    Sans
                                                 ART
                                                           PERSHING
SH-2
                                                                                 į.
                            M-2/M-
                                                      SH-40B
                                                                        9H-3
RADIO 1
M-113
                                                 TOMED
                          COBRA
                                              SLCMS
                    M-901
        F-13
A-10
               M-60
                                  Δ-0
0-0
0-0
0-0
                                                         MLRS
                  F-15
                               FIL
```

TIN			
A-10	CAS	67.	4028
COBRA	CAS		9136
F-4	AIR INTERDICTION		5000
	CAS		7403
F-16	AIR INTERDICTION		4168
	CAS		4400
ART. ACRET	CAS		3701
RADIO RLAY	AIR INTERDICTION		0788
	048		5276
F-111	AIR INTERDICTION		1503
A-6	AIR INTERDICTION		5632
F-15	AIR INTERDICTION		7335
A-7	AIR INTERDICTION		2601
F-14	AIR INTERDICTION	46.	1814
F-18	AIR INTERDICTION	76.	9689
SH-3	ASW(SEA BASED)	5.	2014
SH-2	ASW(SEA BASED)		0036
SH-60B	ASW(SEA BASED)		2277
9-3	ASW(SEA BASED)		6761
ATT, SUBS	ASW(SEA BASED)		4494
	ASW(SEA BASED)		4484
	ASW(SEA BASED)		6690
M-48	ARMY GROUND		9112
M-60	ARMY GROUND		2858
M-1	ARMY GROUND		9212
M-551	ARMY GROUND		0698
M-901	ARMY GROUND		2858
M-2/M-3	ARMY GROUND		2858
M-113	ARMY GROUND		6984
MLRS	ARMY GROUND		4287
TOWED ART.	ARMY GROUND		1905
SELF-PROP.	ARMY GROUND	5.	5874
	ARMY GROUND		6660
GLCM8	ARMY GROUND		4449
INFANTRY	ARMY GROUND		8740
MORITERS			8890
	ARMY GROUND		2095
	-	•	

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																																0.0170	
NORMALIZED VALUES F-111	F-16	F-4	ı	T	8	INFANTRY	F-15	A-7	F-14	A-E.	Μ-1	es 1	Σ	H-60	NIMORE	RIGAT	TT. SU	1 (1	୍ ଜ	ΥE	-2/M-	-901	09-	ADIO	SELF-PROP.	() 	DRT.	OWED	M-40	RT.	1-	FOLES LNCH	[] []

```
NICHEL
 A-10
              CAS
                                                       67.4028
                                                       44 9352
 COBRA
              CAS
                                                       79 8902
              AIR INTERDICTION
                                                        5, 0552
              CAS
 F-16
              AIR INTERDICTION
                                                       68. 4168
              CAE
                                                       37,4440
       ACRET CAS
 ART.
                                                        2, 2468
 RADIO RLAY AIR INTERDICTION
                                                        3, 0788
                                                        2, 5276
              CAS
 F-111
              AIR INTERDICTION
                                                      123, 1503
 A-6
                                                       36, 9451
              AIR INTERDICTION
 F-15
                                                       54, 7335
              AIR INTERDICTION
 A-7
              AIR INTERDICTION
                                                       49, 2601
 F-14
              AIR INTERDICTION
                                                       46, 1814
                                                       76, 9689
 F-18
              AIR INTERDICTION
                                                        6 6555
             ASW(SEA BASED)
-- SH-3
              ASW(SEA BASED)
                                                       17, 3381
                                                       26, 9703
 SH-60B
              ASW(SEA BASED)
                                                       34, 6761
              ARW(SEA BASED)
 9-3
             ASW(SEA BASED)
ASW(SEA BASED)
                                                       43, 3452
 ATT SUBS
FRIGATES
                                                       26,0071
 DSTROYERS
              ASK(SEA BASED)
                                                       15, 6043
 M-48
              ARMY GROUND
                                                       39, 1118
 M-60
              ARMY GROUND
                                                       62, 8582
 M-1
              ARMY GROUND
                                                       69, 8425
 M - 551
              ARMY GROUND
                                                        0.6984
 M-901
              ARMY GROUND
                                                       44,0008
 M-2/M-3
              ARMY GROUND
                                                       50 2866
 M-113
              ARMY GROUNI
                                                        4,8890
              ARMY GROUND
 MLRE
                                                       18, 8575
 TOWED ART.
              ARMY GROUND
                                                       33, 5244
 SELF-PROP.
              ARMY GROUND
                                                       44.6992
 PERSHING
              ARMY GROUND
                                                       16, 7622
 GLCMS
              ARMY GROUND
                                                       20, 9527
                                                       34, 9212
 INFANTEY
              ARMY GROUND
 MORTERS
              ARMY GROUND
                                                       14.6669
 ROLES LNOH ARMY GROUND
                                                        0.2095
```

3

1

00000 41005 41005 10420 10420 10420 10420 11720 11110 10000 10000 11110 100000 100000 100000 100000 10000 10000 10000 10000 10000 5632 4552 3970 NORMALIZED VALUES RILLES LNCH KLAY PERSHING DSTROYERS COBRA SELF-PROP. ACRET SINS OWED ART FRIGATES GLCMS INFANTRY MORTERS M-2/M-3 A-7 SH-60B RADIO M-901 A-10 F-14 ATT. M-43 ART -1609-W F-15 SH-2 =

```
FLUORSPAR ACID
                                                    84, 2536
A = 10
            CAS
            CAE
                                                    44 9352
COBRA
                                                   123, 1503
            AIR INTERDICTION
                                                     8 4254
            CAS
                                                    85, 5110
            AIR INTERDICTION
                                                    46, 8075
            CAS
                                                     3, 3701
     ACRET CAS
ART
                                                     3 078:
RADIO RLAY AIR INTERDICTION
                                                       5276
            CAS
                                                   153, 9378
            AIR INTERDICTION
                                                    46 1814
            AIR INTERDICTION
4-6
                                                    68 4168
            AIR INTERDICTION
F-15
                                                    61, 5751
            AIR INTERDICTION
A-7
                                                    51 3126
            AIR INTERDICTION
F-14
                                                    85, 5210
            AIR INTERDICTION
F-18
                                                     6 9352
            ASW(SEA BASED)
SH-3
                                                    17, 3381
            ASW(SEA BASED)
SH-2
                                                       7129
SH-60E
            ASW(SEA BASED)
                                                    33.
                                                    43, 3452
8-3
            ASW(SEA BASED)
                                                    28 8968
     SUBS
            ASW(SEA BASED)
ATT.
                                                    20, 2277
FRIGATES
            ASW(SEA BASED)
                                                    12, 1367
DETROYERS
            ASW(SEA BASED)
                                                    11, 7335
M-48
            ARMY GROUND
                                                    18 8575
M-60
            ARMY GROUND
                                                    20, 9527
M-1
            ARMY GROUND
                                                     0.2095
M-551
            ARMY GROUND
                                                    50, 2866
M-901
            ARMY GROUND
                                                    50, 2866
M-2/M-3
            ARMY GROUND
                                                     5, 5874
M-113
            ARMY GROUND
                                                     15 7146
MLR/S
            ARMY GROUND
                                                    20, 9527
            ARMY GROUND
TOWED ART.
                                                    27, 9370
            ARMY GROUND
SELF-PROP.
                                                    14, 6669
            ARMY GROUND
PERSHING
                                                    24, 4449
GLCMS
            ARMY GROUND
                                                     55, 8740
INFANTRY
            ARMY GROUND
                                                     24, 4449
MORTERS
            ARMY GROUND
                                                      0.2095
FOLES LNOH ARMY GROUND
```

```
4444
00000
62362
3333
2667
2667
2667
2667
1900
8158
1900
3611
3140
2250
7250
7250
7250
7250
                                                                                                                       7622
4505
                                                                                                                                         2180
                                                                                                                                 2642
        ಯಯುಗುಳಕನನನನನನನೆಸಸಸಸಸಸಸಗಳ ಪ್ರಾರಂಭಿ ಪ್ರಮ
NORMALIZED VALUES
                                                                                                                                               LNJ
                                                                                                                                 RLAY
                                                                                                                                          ACRFT
                                                                                                                    DSTROYERS
                                                                    ATT, SUBS
                                                                        SELF-FROP
                                                                                      TOWED ART
                                                                                              FRIGATES
                                                                                                               PERSHING
                                  INFANTRY
                                                                             MORTERS
                                           M-2/M-8
                                                                3H-60B
                                                                                                                                 EADIO |
M-113
                                                                                SMOTO
                                                   A-6
COBRA
                                              M-901
                                                                                                  M-60
        F-16
                                      F-14
                                                                                                       N-H0
                                                                                                           MLR<sub>(i)</sub>
                                                                                                                        M-48
```

FYRETHRUM	
ATT SUBS	ASW(SEA BASED)
M-48	ARMY BROUKD
M-60	ARMY GROUND
M-113	ARMY GROUND
TOWED ART	ARMY GROUND
SELF-PROP.	ARMY GROUND
INFANTRY	ARMY GROUND
MORTERS	ARMY GROUND

14	4484
27.	3781
44	0008
4.	8890
29.	3338
39.	111⊜
6 9.	8425
C. 0	C. C. C. C.

NORMALIZED VALUES

INFANTRY	10, 0000
M-60	5. 3 000
SELF-PROF	5, 6000
MORTERS	4, 9000
TÜWED ART.	4 2000
M-48	3, 9200
ATT SUBS	2, 0687
M-113	0. 7000

```
ALL COMMODITIES
A-10
            CAS
                                                      2,8646
COBRA
            CAS
                                                        9472
F-4
            AIR INTERDICTION
                                                      3, 9408
            CAS
                                                      O. 2696
F-16
            AIR INTERDICTION
                                                        9077
            CAE
                                                      1, 5915
ART. ACRET CAS
                                                      0.1236
RADIO RLAY AIR INTERDICTION
                                                        1232
                                                      0
            CAS

\overline{C}

                                                        1011
F-111
            AIR INTERDICTION
                                                      5
                                                        2339
A-6
            AIR INTERDICTION
                                                      1.
                                                        6163
F-15
            AIR INTERPLOTION
                                                        3262
A-7
            AIR INTERDICTION
                                                        0936
F-14
            AIR INTERDICTION
                                                      1.
                                                        8473
F-18
            AIR INTERDICTION
                                                      3.
                                                        0788
SH-3
            ASW(SEA BASED)
                                                        2514
                                                      O
SH-2
            ASW(SEA BASEL)
                                                      0 6285
SH-60B
            ASW(SEA BASED)
                                                      1.0451
9-3
            ASW(SEA BASED)
                                                      1.4737
ATT. SUBB
            ASW(SEA BASED)
                                                        2522
FRIGATES
            ASW(SEA BASED)
                                                        7513
DETROYERS
            ASW(SEA BASED)
                                                      0.4508
M-48
            ARMY GROUND
                                                        1734
M-60
            ARMY GROUND
                                                      1,8857
M-1
            ARMY GROUND
                                                      1, 8857
M-551
            ARMY GROUND
                                                      O. 0119
M-901
            ARMY GROUND
                                                      1,5086
M-2/M-3
            ARMY GROUND
                                                      1,5036
M-113
            ARMY GROUND
                                                      0. 2095
MLRS
            ARMY GROUND
                                                      0.6286
TOWED ART.
            ARMY GROUND
                                                      1.1314
SELF-PROP.
            ARMY GROUND
                                                      1,5086
PERSHING
            ARMY GROUND
                                                      0.6286
GLOME
            ARMY GROUND
                                                      0. 9778
INFANTRY
            ARMY GROUND
                                                       2350
MORTERS
            ARMY GROUND
                                                      1, 1245
ROLES LNCH ARMY GROUND
                                                      0.0210
```

```
9963
8682
4355
2010
2010
2008
8613
                                                           8158
3925
2418
1618
1484
                                                                                                      4803
4285
4003
                4732
4444
                        2702
                           7204
6030
6030
                                         5294
                                             0882
                                                8824
8824
8824
   VORMALIZED VALUES
                                                                                                                 ACRET
                                                                                                                    RLAY
                                                    M-901
SELF-PROP
                                                                                               SH-2
DSTROYERS
                                                               Sans
                                                                      TOWED ART
                                                                                    FRIGATES
PERSHING
                        INFANTRY
                                             A-6
M-2/M-3
                                                                          MORTERS
                                                                             309-HS
                                                                                                         KADIO
                                                                                                                    P-11E3
M-551
                               COERA
                                                                                 GLCMS
      F-16
F-4
                    F-15
                                      M-60
                                                                  M-40
             F-18
                                          F-14
                                                           S-3
ATT,
```

CRITICALITY	OF	SHORTFALL
ALL FE/S		
(LOC 3)		
emone qual	D-T	t

	STOCK	SHORT		FE/		NORMALITED
GOAL	FILE	FALL	TRANS-	CMODITY	CRITIC-	FE/SHETFALL
(UNITE)	(UNITE)	(%)	LATED	IMPLIFIT	ALITY	CEITICALITY
85 4	43 8	-4 8. 7	402. 5	8.4	3379, 9	7. 8
42.0	190.6	353. S	O. O	10.0	0.0	O O
200 0	32 2	-83. 9	437.7	10.0	4358, 1	10 O
1400.0	595 O	-34 1	골목한 한	95	3708.3	3 ⊈
5 00. 0	Q, Q -	-100. O	453 8	4 2	1897. 6	4 4

COMPOSITE IMPORTANCE (LOC 3)

COBYLT

COMMODITY

LUORSPAR ACID

DEALT

THEL

'RETHRUM

		AMOUNT	% OF	COMPOSITE		
DURCE		SUPPLIED	TOTAL	IMPURTANCE	1/01	%(1/CI)
NLAND		1350.	6. 4 3	1. 72	0.580	3.731
ROCCO		450.	2.14	2, 05	0.487	1 042
JTSWANNA		250.	1. 19	1.76	O. 569	0.679
DUTH AFRICA		150.	0.71	2, 31	0.432	Q. GOT
IRE		12500.	59, 52	1. 72	0. 580	34, 543
MEIA		3500	16, 67	1. 76	0. 569	위, 4위하
HILIPPINES		50.	0. 24	0.82	1, 216	0. 28원
'STRALIA		400.	1, 90	0.82	1, 214	2 314
W CALEDONIA		250.	1.19	0.82	1. 214	1.447
		1100.	5, 24	2 61	O. 383	2 007
ANADA S		1000.	4. 76	2. 31	0.432	2. OF 9
U	TOTAL		100.00			

TOTAL: 21000. 100.00

COMPOSITE IMPORTANCE (LOC 3)

TIN

	0.6400 (6100		COMPOSITE		
	AMOUNT	% OF	COMPOSITE	1.76.1	** / 1 * / C * * *
URCE	SUPPLIED	TOTAL	IMPORTANCE	1/C1	%(1/01)
LSTRALIA	100.	0.15	0, 82	1. 216	0.180
8	16100.	23, 82	2. 31	0. 432	10, 299
AILAND	5 900.	8, 73	0, 82	1. 216	10.611
DONESIA	5800.	8 . 58	0, 82	1. 216	10 431
K	100.	0.15	1. 76	0. 569	0. 084
rlivia	10300.	15, 24	0, 90	1. 117	17. 014
AZIL	2400.	3, 55	0, 90	1.117	3, 964
RC'	3000.	4. 44	2, 33	0. 429	1,905
ALAYSIA	23900.	35, 36	0, 82	1. 216	42, 983
,					

TOTAL: 67600, 100.00

COMPOSITE IMPORTANCE (LOC 3)

NICHEL

L	AMOUNT	% OF	COMPOSITE		•
STURDE	SUPPLIED	TOTAL	IMPORTANIE	1/CIT	70 1 / CI (
FINLAND	1000.	0.33	1, 72	୦. 5୫୦	$C = 1 \le 1$
STUTH AFRICA	5 000.	1.64	2, 31	0, 432	0.710
FRILIPPINES	5000.	1.64	0.82	1, 216	1 997
AUSTRALIA	25000.	8 21	0, 82	1, 216	의 중앙인
GANADA	15 0000.	49, 28	2.61	0.383	18 877
is	8 8000.	28.91	2, 31	0.432	12 501
G. SECE	6 00.	0 20	1. フゟ	O. 549	0.112
NETHERLANDS	200.	0.07	1. 76	0, 569	0.037
FG	100.	0.03	1.76	O. 569	0.019
Y GOSLAVIA	500	0 16	1.76	0 55학	Ç 0944
USSR	5 000.	1.64	0.86	1, 160	1, 905
ITM REPUB	15000.	4.93	1,38	0. 727	3 582
C ATAMALA	4 000.	1. 31	1,38	0. 727	0.955
INDONESIA	5000.	1. 64	0, 82	1, 216	1 997

COMPOSITE IMPORTANCE (LOC 3)

FLUORSPAR ACID

TOTAL: 304400. 100.00

•		AMOUNT	% OF	COMPOSITE		
SOURCE		SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CI)
SOUTH AFFICA		180.	22, 36	2, 31	0 432	ର, ୧୧ଟ
Û Ŝ		7 0.	8. 7 0	2, 31	0.432	3, 760
ITALY		65 .	8. 07	1. 76	0, 569	4 597
4-AIN		100.	12.42	1. 76	0, 569	7, 073
E ST AFRICA		25.	3.11	1. 76	0, 569	1, 769
THAILANI		15.	1.86	0, 82	1. 216	2, 265
MUXICO		350.	43, 48	2, 31	0. 432	18 801
	TOTAL:	805.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

SUURCE SUUTH AFRICA AUSTRALIA L. L.NYA RWANDA TANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 2: 31 0: 82 1: 76 1: 76 1: 76 1: 76	1/CI 0. 432 1. 216 0. 569 0. 569 0. 569 0. 569	%(1/01) 0, 438 0, 923 3, 171 23, 063 7, 207 22, 487
· HARLINELI			<u></u>		

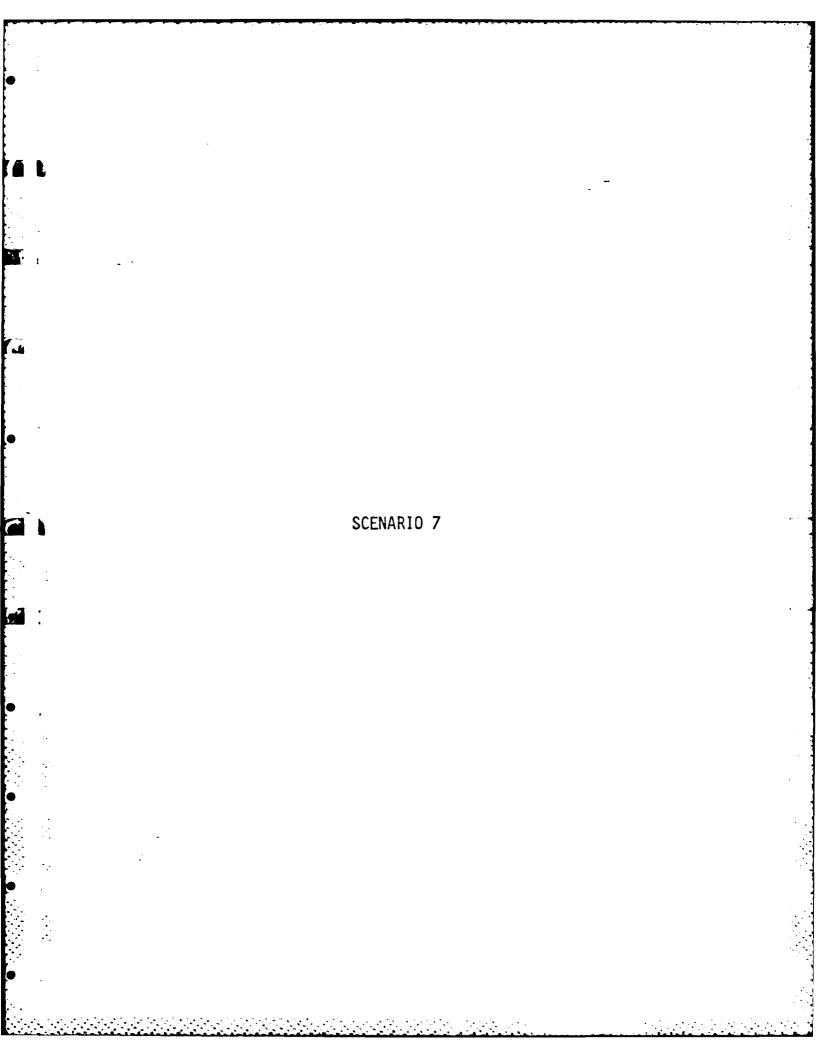
TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/CI) COME IME	FE/SHORTFALL CRITICALITY	TOTAL	NORMALIZED TO 100
COBALT I FINLAND MOROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	3 731 1 043 0 678 0 309 34 543 9 490 0 289 2 316 1 447 2 007 2 059	7 76 7 76 7 76 7 76 7 76 7 76 7 76 7 76	28, 93 8, 09 5, 26 2, 40 267, 90 73, 60 2, 24 17, 96 11, 22 15, 56 15, 97	10, 80 - 8, 6, - 1, 96 - 0, 89 100, 00 - 27, 47 - 0, 84 - 6, 70 - 4, 19 - 5, 81 - 5, 96
TIN AUSTRALIA .U.S THAILAND INDONESIA .UK BOLIVIA BRAZIL PRO MALAYSIA	0. 180 10. 299 10. 611 10. 431 0. 084 17. 014 3. 964 1. 905 42. 983	0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0 00
N. CKEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U.S. GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA	0. 191 0. 710 1. 997 9. 985 18. 877 12. 501 0. 112 0. 037 0. 019 0. 094 1. 905 3. 582 0. 955	10. 00 10. 00	1, 91 7, 10 19, 97 99, 85 188, 77 125, 01 1, 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55	37, 27 70, 46 46, 66 0, 42 0, 14 0, 07 0, 35 7, 11 13, 37 3, 57
INDONESIA FIUORSFAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	1. 997 9. 669 3. 760 4. 597 7. 073 1. 768 2. 265 18. 801	8, 51 8, 51 8, 51 8, 51 8, 51 8, 51 8, 51	19, 97 82, 28 32, 00 39, 12 60, 19 15, 05 19, 28 159, 98	
F.RETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0. 4 38 0. 9 23 3. 171 23. 063 7. 2 07 22. 4 87	4. 35 4. 35 4. 35 4. 35 4. 35 4. 35	1, 91 4, 02 13, 81 100, 42 31, 38 97, 91	0, 71 1, 50 5, 15 37, 49 11, 71 36, 50

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

F	SOURCE	COMMODITY	VALUE
1	ZAIRE	COBALT	100, 00
2	CANADA	NICHEL FLUCRBPAR ACID NICHE	70. 46
	MEXICO	FLUORSPAR ACID	59, 72
	U.S.	NICHEL	46.66
5	KENYA	FYRETHRUM	37, 49
٠,	AUSTRALIA	NICKEL	37, 27
(8	TANZANIA	PYRETHRUM	36, 55
<u> </u>	SOUTH AFRICA	FLUORSPAR ACID	3Q. 71
ا ج	ZAMBIA	FLUORSPAR ACID NICHEL PYRETHRUM NICKEL PYRETHRUM FLUORSPAR ACID COBALT FLUORSPAR ACID FLUORSPAR ACID NICKEL	27, 47
, j	SPAIN	FLUORSPAR ACID	22, 47
1.	ITALY	FLUORSPAR ACID	14 60
12	DOM. REPUB	NICHEL	13 37
1 :	ប្ទ	FLUORSPAR AGID	11, 94
1	RWANDA	FYRETHRUM	11.71
15	FINLAND	COBALT	10, 80
1 ′	INDONESIA	NICKEL	7. 45
1	FHILIPPINES	NICKEL	7. 45
18	THAILAND	FLUORSPAR ACID	7. 20
19	USSR	NICKEL	7. 11
2 2	AUSTRALIA	COBALT	6. 70
z_{\perp}	បទ	COBALT	5. 96
22	CANADA	COBALT	5. 81
, 2	EAST AFRICA	FLUORSPAR ACID	
2	SOUTH AFRICA ZAMBIA. SPAIN ITALY DOM. REPUB. U S RWANDA FINLAND INDONESIA PHILIPPINES THAILAND USSR AUSTRALIA U S CANADA EAST AFRICA UK NEW CALEDONIA GUATAMALA	PYRETHRUM	5, 15
25	NEW CALEDONIA	COBALT	4. 19
24	GUATAMALA	NICKEL	3, 57
14	MOROCCO	COBALT	3. 02
28	SOUTH AFRICA	NICHEL	2.63
. 29	BOTSWANNA	COBALT	1. 96
	AUSTRALIA	PYRETHRUM	1.50
(S) (S) (S)	SOUTH AFRICA	COBALT	1, 50 0, 89
32	PHILIPPINES	COBALT	0. 87 0. 84
3-		PYRETHRUM	0. 71
G *,	FINLAND	NICKEL	0.71
35	GREECE	NICKEL	0. 42
36	YUGOSLAVIA	NICKEL	0.35
3	NETHERLANDS	NICKEL	0. 14
3.	FRG	NICKEL	0. 14
	MALAYSIA	TIN	
4	PRC	TIN	0, 00
4	BRAZIL	TIN	0, 00
· 42	BOLIVIA		0. 00
4~	UK	TIN	0.00
4	INDONESIA	TIN	0. 00
45	THAILAND	TIN	0. 00
4 6	U S	TIN	0. 00
4.	AUSTRALIA	TIN	0. 00
. •	HOUTHELM .	TIN	0. 00



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WEIGHTS on REGION by LEVEL of CONFLICT and MEIGA
                   Level of Conflict 3 Media 1
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              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its own Media
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Region
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 "/CORF 0 0228 0.0228 0 0160 0 0114 0.0160 0.0046 0.0046 0 0114 0 0146 0 017
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Region
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 /COEF 0.0171 0.0171 0.0154 0.0038 0.0119 0.0085 0.0017 0.0136 0.0119 0.0085
I/COEF 0.0154
yedia 3
region
I/COEF 0.0228 0.0228 0.0228 0.0183 0.0197 0.0001 0.0183
 Jedia 4
egion
1/00EF 0.0702 0.0301 0.0150 0.0075
 mportance of controlling ANY Region
 ithin its Media as compared to the Importance
of controlling ANY Region of any other Media
Media 1
 egion
I/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0050 0.0020 0.0060
Media 2
egion
            1
                   2
                          3
                                  4
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wedia 11
Region
:/COEF 0:0037.0.0037.0.0033.0.0033.0.0015.0.0026.0.0019.0.0004.0.0030.0.0026.0.0019
*/COEF 0.0033
Media 3
 egion
 /COEF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
Media 4
Region
F/COEF 0.0065 0.0026 0.0013 0.0007
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FORCE ELEMENT IMPORTANCE (LCC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RANCINI	NUMBER	NOTE	VALUE	
1	17	CARRIER FARTLE GROUP	0.141	
2	1	AIR INTERLICTION	0. 117	왕 . 26년
3	3:	ARMY GROUND	0.104	
4	16	ATTACK SUBJ	0.072	
5	15	SUPPACE COMESTANTS	0.060	
. 6	12	THEATER NEILEAR WEAPON	0.054	
7	8	RAFID DEFLOY	0.052	_
F	£.	CAS	Q Q 54	
9	1.4	ASM(LANI PASED)	(j. 1)45	
10	22	AIR SUPERIORITY (LAND B)	MEED) O. 011	
11	1 5)	ASWISER FALETO	0.033	
12	23	AIR SUPERIORITY (SHIP BA		
13	21	AIR DEFENSE SHIF BASED		
14	10	STRATEGIC BUTDER	0.025	
15	25	SPCE HABED WEAPON(AIR (ONTRLIO 020	
16	29	ABAT(SPACE BASED)	0, 013	
17	18	MINE WARFARE	0.013	
18	2	AMPHIBIOUS ASSAULT	0.011	
19	1 B	SPECIAL OPERATIONS	0.010	
20	28	ASAT(LANI BASED)	0.007	
21	20	AIF DEFENSE (LAND) BARED		
22	9	SPOE-BABLD WEAPON (LND)		
23	30	SPICE BASED WEAPON(SEA)		
24	27	ABMINSPACE BASED)	0, 000	
25	26	AIM(LAND MASED)	\mathbf{Q}_{i} . \mathbf{Q}_{i}	
26	24	INTERCEPTOR AIRCRAFT		
27	1 1	SLBM	9. 00 0	
28	7	ICEM	0 . 000	
29	5	CIVIL DEFENSE	0, 000	•
30	4	CEW	0 000	Ø 000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5. 71
ARMY GROUND	4, 52
CAS	1, 75
ICBM	Q, QG
STRATEGIC BOMBER	1. 79
SLBM	Q, QQ
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10, 0 0
SURFACE COMEATANTS	4, 20
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY (SHIP BASED)	2, 28
INTERCEFTOR AIRCRAFT	0, 00
ASAT (LAND BASED)	0, 51
	34, 9 th

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5. 90
1. 92
1. 84
1.79
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1.11
5.13
10.00
0 89
4, 25
2.94
2, 28
\mathbf{Q}_{1} \mathbf{Q}_{2}
Q. GO
41.18

NICHEL

AIR INTERDICTION	5 60
ARMY 650UND	4.91
£4:9	1 /2
STRATEGIC BOMBER	1. 7 ^c
ASW(SEA BASED)	1. 71
ATTACK SUPS	5 13
CARRIER BATTLE GROUP	10.00
MINE WARFARE	Ø S⊗
SUMMATANTS	$A = \{ (a,b) \}$
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2 20
INTERCEPTOR AIRCRAFT	Q QO
	41, 21

FLUORISPAR ACID

AIR INTERDICTION	7.13
AMPHIBIOUS ASSAULT	0. 76
ARMY GROUND	3, 69
CAS	2, 05
ICBM	0.00
STRATEGIC BOMBER	1. 79
SLBM	0.00
ASW(LAND BABED)	3, 08
ASW(SEA BASED)	1.63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ABM(LAND BASED)	0 00

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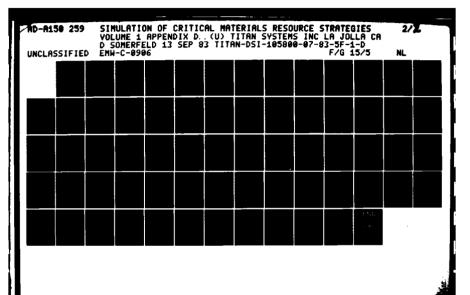
HPMY GROUND [IV]L DEFENSE	2.63
ASW(SEA BASEI)	0, 00 0, 14
ARRIER BATTLE GROUP SURFACE COMBATANTS	10 00 4 25
	 17. 09

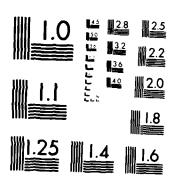
COMMODITY NORMALIZED IMPORTANCE NICKEL 10 00

	NICKEL TIN	10.00	- (41	24
		တ္ တာက	(41	1.0
١	PLUORSPAR ACID	9. 60	ſ	31.	-
	TOBALT	⊜, 4 ୬	(3.4	·2·
i	PYRETHRUM	4.14	(17	Ç.E

COPALT	
COBALT A-10	CAS 72 7336
	[A] 45 45 1
	AIR INTERDICTION 108 5050
	CAS 7 2794
F-16	A)F INTERNICT)ON 71, 8755
	CAS 40 ACTO 1 7
ART. ACRET	
RADIO RLAY	AIR INTERDICTION 3 2345
	CAS 2: 7275
F-111	AIR INTERDICTION 128 8818
6-6 - ·	AIR INTERFICTION 98.8144
	AIR INTERDICTION 57, 5028
	AIR INTERDICTION 51.7075
	AIR INTERDICTION 43. 1271
	AIR INTERDICTION 71 8785
원터-3	-ASW(SEA BASED) 6 0775 -ASW(SEA BASED) 15 1937
9H-2	ASW(SEA BASED) 15 1937 ASW(SEA BASED) 23 6346
SH-60B 5-3	- ASW(SEA PASED) - SA, 7284
ATT OUTS	ABW(SEA PASED) 34,7284 ABW(SEA BASED) 24,1169
	ASW(SEA BASED) 14.4701
	ABN(BEA BABED) 8 6521
	ARMY GROUND 37 9649
M-60	ARMY GROUND 61 0182
M-1	ABMY 680000 67,7980
MESS	ARMY ARGUED 0 2260
M-901	ARMY GROUND 54, 2384
M-2/M-3	ARMY GROUND 47 4550
M-113	ARMY GROUND 5. 2782
MLRS	ARMY GROUND 20.3394
TOWED ART.	ARMY GROUND 27, 1192
SELF-FROM.	
PERSHING	
GLOME	ARMY GROUND 30, 1024
	ARMY GROUND 7.5331
	ARMY GROUND 86, 9122
ROLES LNUF	ARMY GROUND 1.5820
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	VALUES
•	LIZED RS RS ART. ART. SUBS B ING TES TES TRY ACRET
	LIZE H-8 FROP ART SUBS ING ING ING ING ING ING ACKRS
	A CE THE COUNTY OF THE COUNTY
	NORMALIZED F-111 F-16 F-16 F-10 M-60 M-10 M-60 M-10 M-501 M-7 COBRA M-2/M-3 F-15 M-8 M-8 M-15 M-8 M-15 M-8 M-15 M-8 M-15 M-8 M-15 M-13 M-13 M-13 M-13 M-13 M-13 M-13 M-13
	ΝΕΠΕ ΦΕΣΕΣΟΣΕ ΦΕΣΟΘΕΡ ΦΟ ΕΙΘΕΣΟΣΕ ΟΙΙΙΙΙΟ ΤΙΙΙΟΙΙΙΙΟ ΕΙΟΘΕΡ ΦΟ ΕΙΘΕΣΟΣΕ ΣΟ ΕΙ ΣΙΙΙΟΙΟ ΤΙΙΙΟΙΟ ΤΙΙΟΙΟΙΟ ΤΙΙΙΟΙΟΙΟΙΟΙΟΙΟΙ

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MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS 1963-4

TIN		
A-10	CAS	72. 7 336
COBRA	CAS	64. 6521
F-4	AIR INTERDICTION	103,5050
	CAS	7 2734
F-16	AIR INTERDICTION	71 8785
	CAS	40. 4075
ART. ACRET		3. 636 7
RADIO RLAY	AIR INTERDICTION	3 2343
	CAS	2. 7275
F-111	AIR INTERDICTION	129, 3813
A-F	AIR INTERDICTION	43. 6662
F-15	AIR INTERDICTION	57, 5028
A-7 .	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48. 5180
F-18	AIR INTERDICTION	8 0. 8633
SH-3	ASW(SEA BASELI)	5 . 2093
SH-2	ASW(SEA BASED)	13.0231
SH-60B	ASW(SEA BASED)	20. 2532
8-3	ASW(SEA BASED)	34. 7284
ATT. SUBS	ASW(SEA RASED)	14 4701
FRIGATES	ASW(SEA BASED)	14. 4701
DSTROYERS	ASW(SEA BASED)	8 6821
M-48	ARMY GROUND	4. 2185
M-60	ARMY GROUND	6. 7798
M-1	ARMY GROUND	37. 6655
M-551	ARMY GROUND	0.0753
M-901	ARMY GROUND	6 . 7798
M-2/M-3	ARMY GROUND	6. 77 93
M-113	ARMY GROUND	0. 7533
MLRB	ARMY GROUND	10. 1697
TOWED ART.	ARMY GROUND	4. 5199
SELF-PROP	ARMY GROUND	6.0213
DEPCHING	ARMY GROUND	15 8195
GLOMS	ARMY GROUND	
INFANTRY	ARMY GROUND	26 3659 60, 264 9
MORTERS	ARMY GROUND	5. 2732
ROLES LNCH	ARMY GROUND	0. 2260 0. 2260
	•	or made of

10,0000 8,678/ 8,5622 6,2500 5,6216 4,9970 4,6579 2, 9112 2, 6842 2, 0378 1. 5658 1. 2227 1. 1184 1. 1184 0. 7840 0. 5240 0. 5240 0. 5240 0. 5240 0. 4658 0. 4658 0. 4608 0. 3408 0. 3408 9, 2811 0, 05% 0, 0175 0, 00 as 4, 0000 3, 3750 3, 7500 1.0066 NORMALIZED VALUES F-111 RADIO RLAY MORTERS MCLES LNCH M-TG1 M-60 SELF-PROP. CRT, ACRET ATT, SUBS SH-2 DSTROYERS M-2/M-3 M-901 TOWED ART. COBRA INFANTRY F-15 A-7 SH-60B PERSHING FRIGATES © 1 1 −W M-1 S-3 GLCMS 01-A SH-0 F-16 F-4 M.R. 81-1 M-48 F-14

NICKEL		
A-10	CAS	72, 7336
DOMEA	CAS	48.48-1
F-4	AIR INTERDICTION	77. 6298
	CAS	5 4550
F-16	ALE INTERPLETION	T1 8795
	CAS	40, 4075
ART. ACRET	CAS	2 4745
RADIO RLAY	AIR INTERDICTION	3 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	38.8144
F-15	AJR INTERDICTION	57 5048
F-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	48 5180
F-18	AIR INTERDICTION	80, 8633
SH-3	ASW(SEA BABED)	6. 9407
SH-2	ASW(SEA BASED)	17, 3642
SH-60F	ASW(SEA MASED)	27. 0.00
S-3	ASW(SEA BASED)	34, 7284
	ASW(SEA BASEL)	43 4104
	ASW(SEA BASED)	26, 0463
DSTROYERS	ASW(SEA BASED)	15, 6278
M-48	ARMY GROUND	42, 1854
M-60	ARMY GROUND	67. 7 980
M-1	ARMY GROUND	75, 3311
M-551	ARMY GROUND	0. 7533
M-901	ARMY GROUND	47 4586
M-2/M-3	ARMY GROUND	54 2384
M-113	ARMY GROUND	5 2732
MLRS	ARMY GROUND	20. 3394
	ARMY GROUND	36 1589
SELF-PROP.	ARMY GROUND	48, 2119
PERSHING	ARMY GROUND	18, 0795
GLOMS	ARMY GROUND	22, 5993
	ARMY GROUND	37. 6655
MORTERS	ARMY GROUND	15 8195
ROLES LNOH	ARMY GROUND	0. 2260

				1.3974 1.3974 1.2927 1.2077 0.5368 0.4608 0.4676 0.1874 0.002
NORMALIZED VALUES F-111 F-16 F-4 F-18 M-1 A-10	F-15 M-2/M-3 A-7 F-14	SELF-PROP. M-901 ATT. SUBS M-48 A-6	INFANTRY TOWED ART. S-3 SH-60B FRIGATES GLCMS	PERSHING SH-2 MORTERS DSTROYERS SH-3 RADIO RLAY M-113 ARI, ACRFT M-551 RCLS LNCH

FLUORSPAR	ACIT	
A-10	CAS	
COBRA	CAS	90, 9170
F-4	AIR INTERDICTION	48, 4891
	CAS	129, 3813
F-16	AIR INTERDICTION	9,0917
	CAS	89 8431
ART. ACRET		50, 5094
RADIO RLAY		3, 6 36 7
· · · · · · · · · · · · · · · · ·	CAS	3, 2345
F-111	AIR INTERDICTION	2. 7275
A-6	AIR INTERDICTION	161, 7266
F-15		48, 5180
A-7	AIR INTERDICTION	71, 8785
F-14	AIR INTERDICTION	64 6906
F-18	AIR INTERDICTION AIR INTERDICTION	5 3, 9089
SH-3	ASW(SEA BASED)	5 9. 5 491
SH-2	ASW(SEA BASED)	6. 9457
SH-60B	ASW(SEA BASEI)	17, 3642
S-3	ASW(SEA BASED)	33. 7 63 7
ATT SUBS		43, 4104
FRIGATES		28 9403
DSTRUYERS	ASW(SEA BASED)	20. 25 82
M-48	ARMY GROUND	12.1549
M-60	ARMY GROUND	12, 6556
M-1	ARMY GROUND	20, 33୭4
M-551	ARMY GROUND	22. 5 993
M-901	ARMY GROUND	0. 2260
N-2 M-3	ARMY GROUND	54, 2384
M-113	ARMY GROUND	54, 2304
MLRS	ARMY GROUND	6, 0265
TOWEL ART.	APMY GROUND	16, 9495
SELF-PROP.	ARMY GROUND	22, 5993
PERSHING		30, 1324
GLCMS	ARMY GROUND ARMY GROUND	15, 8195
INFANTRY		26, 3659
MORTERS		60, 2649
ROLES LNOH		26, 3659
INCEED ENUM	ARMY GROUND	0. 2260

10,0000 8,6787 5,622 5,6216 4,4444 4,0000 3,3537 3,3537 2,982 1,7892 1,3974 1,3974 1,2974 2526 0737 0480 9782 0, 7825 0, 7516 37% 3686 0, **4**295 0, 3725 2200 NORMALIZED VALUES RADJO RLAY ATT, SUBS MORTERS GLCMS TOWED ART. ART AFFET SH-60B SELF-PROP. DSTROYERS INFANTRY M-2/M-3 FERSHING FRIGATES €11-k A-6 COBRA S-3 F-111 M-901 F-14 SH-2 MLRS 8-13 M-40 09-W A-10 F-18 F-15 F-16 A-7 F-4 I-E

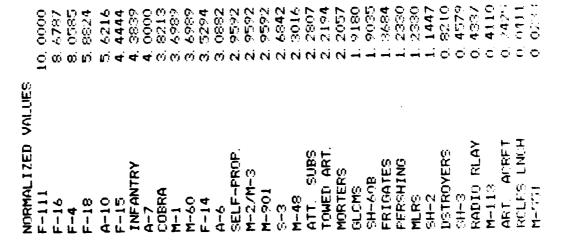
FYRETHRUM

ATT, SUBS	ASW(SEA BASED) ARMY GROUND	14, 4701 29, 5099
M=60	ARMY GROUND	47. 4586
M-113	ARMY GROUND	5. 2732
TOWED ART.	ARMY GROUND	31, 6390
SELF-PROP.	ARNY GROUND	42, 1854
INFANTRY	ARMY GROUND	75, 3311
MORTERS	ARMY GROUND	36, 9122

NORMALIZED VALUES

INFANTRY	10. 0000
M-60	6 . 3000
SELF-PROP.	5. 6 000
MORTERS	4 . 9000
TOWED ART.	4 2000
M-48	3, 9200
ATT. SUES	1.9209
M-113	0. 7 000

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ALL COMMODITIES
A-10
            CAS
                                                     3, 0912
COFRA
            CAS
                                                     2, 1012
F-4
            AIR INTERDICTION
                                                      4, 1402
            CAS
                                                     0. 2909
            AIR INTERDICTION
F-16
                                                     3,0548
            CAS
                                                     1.7173
ART. ACRET CAS
                                                     0.1333
RADIO REAY AIR INTERDICTION
                                                     0 1294
            Cris
                                                     0.1091
            AIR INTERDICTION
F-111
                                                     5, 4987
4-6
            AIR INTERDICTION
                                                      1.6981
F-15
            AIR INTERDICTION
                                                     2 4439
A-7
            AIR INTERDICTION
                                                       1995
F-14
            AIR INTERDICTION
                                                     1. 9407
F-18
            AIR INTERDICTION
                                                     3, 2345
SH-3
            ASW(SEA BASED)
                                                     0. 2518
SH-2
            ASW(SEA BASED)
                                                     0. 6295
SH-60B
            ASW(SEA BASED)
                                                      1. 04.7
9-3
            ASW(SEA BASEL)
                                                      1.4760
ATT.
     SUPS
            ASW(SEA BASED)
                                                     1, 2541
FR1GATES
            ASW(SEA BASED)
                                                     0. 7524
DSTROYERS
            ASW(SEA BASED)
                                                     0.4515
M-48
            ARMY GROUND
                                                     1, 2656
M-60
            ARMY GROUND
                                                     2.0339
M-1
            ARMY GROUND
                                                     2, 0339
M-551
            ARMY GROUND
                                                     0.0128
M-901
            ARMY GROUND
                                                     1. 6272
            ARMY GROUND
M-2/M-3
                                                     1 6272
F-113
            ARMY GROUND
                                                     0. 2260
MLRS
            ARMY GROUND
                                                     0. 6780
TOWED ART
            ARMY GROUND
                                                      1. 2204
SELF-PROP
            ARMY GROUND
                                                     1 6272
PERBHING
            ARMY GROUND
                                                     0. 6780
GLOMS
            ARMY GROUND
                                                     1.0546
INFANTRY
            ARMY GROUND
                                                     2.4104
MORTERS
            ARMY GROUND
                                                     1, 2128
ROLES LNCH ARMY GROUND
                                                     0.0226
```



CRITICALITY OF SHORTFALL AUL FE'S (LOC 3)

		STOCK	SHORT		FE/		NORMAL 1 TEST
	GOAL	FILE	FALL	TRANS-	CMODITY	CRITIC-	FE SHRIFALL
COMMODITY	(UNITS)	(UNITS)	(%)	LATEI	IMPORT.	ALITY	CRITICALITY
LORALT	운동, 4	43 8	-49 7	402 5	85	3418.1	7. e
TIN	4 2. 0	190.6	353.8	O. O	10.0	0. 0	0. 0
LUOKSPAR ACID	200. 0	32. 2	-83, 9	437.7	10 0	4377. 1	10 0
LUORSPAR ACID	14 00. 0	8°5 0	- 36 1	ଓଞ୍ଚିତ୍ର	9.6	3744.3	8 6
. PYRETHRUM	500 O	$\Theta_{i}, \Theta_{i} \rightarrow$	-100 0	453.8	4. 1	1880.7	4

COMPOSITE IMPORTANCE (1.00 3)

COBALT

	AMOUNT	% OF	COMPOSITE		
DURCE	SUPPLIED	TOTAL	IMPORTANTE	1/6I	*, C1.75 T /
FINLAND	1350.	6.43	1. 92	0.520	3. 343
MOROCCO	45Q.	2 14	1 50	0.667	1 475
DTSWANNA	25 0.	1. 19	0.71	1.404	1.671
SOUTH AFRICA	150.	0.71	1.19	0.841	0.661
ZAIRE	12500.	59, 52	1. 92	0 . 5 20	30, 95%
AMBIA	3500.	16.67	0.71	1.404	23. 393
! HILIPPINES	50.	0. 24	0, 92	1.087	0.25%
AUSTRALIA	400	1. 90	0.92	1.087	2. 670
EW CALEDONIA	25 0.	1.19	0. 92	1 087	1. 25 3
<u> </u>	1100.	5, 24	2, 89	0.346	1. 512
ប់ទ	1000.	4.76	2, 56	0.391	1.805

TOTAL: 21000, 100,00

COMPOSITE IMPORTANCE (L00 3)

TIN

	AMOUNT	% OF	COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CT)
PUSTRALIA	100.	0.15	0, 92	1.087	0. 161
្សំ S	16100.	23, 82	2, 56	0. 391	9 310
THAILAND	5900.	8. 73	0. 92	1. 087	9, 483
'NDONESIA	5800.	8 . 5 8	0. 92	1. 087	9. 322
<	100.	0. 15	1. 96	0. 510	0.075
BOLIVIA	10300.	15, 24	0. 98	1. 020	15.548
TRAZIL	2400.	3, 55	0. 86	1. 162	4. 125
₹С	3000.	4. 44	2. 47	0.405	1. 794
MALAYSIA	2 3900.	35, 36	0. 92	1. 087	38, 414

TOTAL: 67600. 100.00

COMPOSITE IMPURTANCE (LOC 3)

NICKEL

*** 18******	AMDUNT SUPPLIED	% OF TOTAL	COM-CSITE	- 1/CI	X/1/cI
DURCE			1. 92	0. 520	0 171
INLAND	1000.	0.33	• · ·		
DUTH AFRICA	5000.	1.64	1.15	0. 841	1 3 1
HILIPPINES	5 000.	1.64	0. 92	1. 087	1.7:
JETRALIA	25000.	8, 21	O. 92	1. 687	ម ទីបួង
ANADA	150000.	4 9, 2 8	2. 8 9	0.346	17, 051
S	880 00 .	28, 91	2. 56	0.351	11 311
REECE	6 00.	0. 20	1. 96	0.510	0 101
ETHERLANDS	200	0.07	1. 96	0.510	0.037
FG	100.	0. 03	1. 96	0.510	0.017
UGOSLAVIA	500.	0.16	1.96	0.510	O. OS:
SSR	5000	1.64	0.94	1.061	1. 742
OM. REPUB.	15000.	4, 93	1, 53	0. 656	3, 230
UATAMALA	4000.	1.31	1, 53	0. 656	0, 9:31
NDONESIA	5000.	1. 64	0. 92	1. 087	1, 785

TOTAL: 304400 100.00

COMPOSITE IMPORTANCE (LOC 3)

FLUORSPAR ACID

COURTE COURTE COUTH AFRICA LS TALY CAIN CAST AFRICA HAILAND CEXICO	•	AMOUNT 180. 70. 65. 100. 25. 15. 350.	% OF 100 AL 22, 36 8, 70 8, 07 12, 42 3, 11 1, 86 43, 48	COMPOSITE IMPORTANCE 1, 19 2, 56 1, 96 1, 96 0, 71 0, 92 2, 56	1/01 0, 841 0, 391 0, 510 0, 510 1, 404 1, 087 0, 391	% (1/01) 18, 803 3, 402 4, 100 6, 338 4, 359 2, 025 17, 011
	 	805	100.00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

OURCE OUTH AFRICA USTRALIA IK ENYA WANDA ANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 1. 19 0. 92 1. 96 0. 71 0. 71 0. 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0,852 0,825 2,842 56,855 17,767 55,433

TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/CI) COMP IMP			NORMALIZED TO 100
FINLAND MURCOCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEBONIA CANADA U S	3 343 1 427 1 671 0 601 30 954 27 293 0 257 2 070 1 293 1 813 1 863	7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81 7. 81	26, 11 11, 16 13, 05 4, 69 241, 74 182, 68 2, 02 16, 16 10, 10 14, 16 14, 55	10 69 7.4 5 5. 34 1. 92 98. 96 74. 73 6. 61 4. 13 5. 96
AUSTRALIA U S THAILAND INDONESIA UK ! POLIVIA BRAZIL PRO	0, 161 9, 319 9, 483 9, 322 0, 075 15, 548 4, 125 1, 794	0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00
MALAYSIA NICKEL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM REPUB GUATAMALA INDONESIA	0, 171 1, 381 1, 785 8, 924 17, 094 11, 311 0, 101 0, 034 0, 017 0, 084 1, 742 3, 230 0, 861 1, 785	10, 00	1, 71 13, 81 17, 85 89, 24 170, 54 113, 11 1, 01 0, 34 0, 17 0, 84 17, 42 32, 30 8, 61 17, 85	46, 30 0, 41 0, 14 0, 07 0, 34 7, 19 13, 22 3, 53
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55 8, 55		65, 84 11, 91 14, 43 22, 19 15, 26 7, 09
YRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 852 0, 825 2, 842 56, 855 17, 767 55, 433		76, 34	1, 45 5, 00 100, 00 31, 25

SUURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

ii	SOURCE	COMMEDITY FYRETHRUM COBALT FYRETHRUM COBALT NICKEL FLUGGSPAR ACID	VALUE
1	KENYA	PYRETHRUM	100, 00
2	ZAIRE	COBALT	98, 96
3	TANZANIA	PYRETHEMS	97, 50
4	ZAME:I-A	CORALT	74. 7 £
5	CANADA	NICKEL	69. B1
Ŀ.	SOUTH AFRICA	A PERSONAL PROPERTY OF THE PRO	65 SA
7	MEXICO	FLUGASPAR ACID	59, 57
8:	US	NICKEL	46.30
9	AUSTRALIA	NICHEL	36, 53
O	RWANDA	PYRETHRUM	31, 25
1	SPAIN	FLUORSHAR ACID	22, 19
2	EAST AFRICA	FLUORSHAR ACID	15, 24
3	ITALY	FLUORSPAR ACID	14.43
4	DOM. REPUB.	NICKEL	13, 22
5	บุร	FLUORSPAR ACID	11, 91
<u>بن</u>	FINLAND	COBALIT	10. 69
7	INDONESIA	NICKEL	7, 31
ė.	PHILIPPINES	NICKEL	7. 31
•	USSR	NICKEL	7. 13
0	THAILAND	FLUORBPAR ACID	7. 09
1	AUSTRALIA	COBALT	6.62
2	US	COBALT	5, 96
្រ	CANADA	CORALT	5 79
4	SOUTH AFRICA	NICKEL	5, 65
5	BOTSWANNA	CORALT	5, 34
6	DK MODOGOO	PYRETHRUM	5. <u>00</u>
7	MOROCCO	COBALT	4. 57
ထုံးမှ	NEW CALEDONIA	COBALT	4.13
•	GUATAHALA	NICKEL	3, 5 3
0	SOUTH AFRICA	COBALT	1. 92
1	SOUTH AFRICA	PYRETHRUM	1, 50
2	AUSTRALIA	PYRETHRUM	1, 45
3	PHILIPPINES	COBALT	0.83
4	FINLAND	NICKEL	0. 70
5	GREECE	NICKEL	0.41
6	YUGOSLAVIA	NICKEL	0. 34
\$7 C	NETHERLANDS	NICKEL	0.14
0	FRG	NICMEL TIN	0. 07
9	MALAYSIA		Q. QQ
	PRC	TIN	0. 00
1 2	BRAZIL	TIN	0. 00
3	BOLIVIA J	TIN	0.00
9	INDONESIA	TIN	0, 00
5		TIN	-
	THAILAND	TIN	0. 00
16 7	US	TIN	0.00
/	AUSTRALIA	TIN	0. 00

SCENARIO 8

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                   Level of Conflict 3 Media 1
                          3
gion
          1
                          7. O
                                  5 0
                                          7. O
                                                          2. 0
                                                                  5.0
                                                 10.0
         10.0
                 10.0
                                                                          2. 0
                                                                                 Co. Co
 aight.
<mark>VÕÕEF 0.1563 0.1563 0.1094 0.0781 0.1094 0.1563 0.0313 0.0781 0.03</mark>13 0.0733
                   Level of Conflict 3 Media 2
                                                                  8
                                                                                 10
                          3
 ីទូរខែក
         11
cion
aight
         10.0
                 10.0
                          9. 0
                                  4.0
                                          7.0
                                                  5. 0
                                                         10.0
                                                                  8.0
                                                                          7. 0
                                                                                  5 0
Fight
          9. 0
|COEF 0.1190 0.1190 0.1071 0.0476 0.0833 0.0595 0.1190 0.0952 0.0833 0.0595
FOOEF 0. 1071
                   Level of Conflict 3 Media 3
rgion
                  2
                          3
          1
eight
         10.0
                 10.0
                         10.0
                                 10.0
                                          6.0
                                                  4. 0
                                                         10.0
TOEF 0.1667 0 1667 0.1667 0.1667 0 1000 0 0667 0.1667
                   Level of Conflict 3 Media 4
egion 1 2 3 4
>ight 10 0 4.0 2.0 1.0
| 10EF 0.5882 0.2853 0.1176 0.0588
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF COMFLICTS
              or the Importance of Controlling EACH region within its our Media
edia
rgion
COEF
                           3:
                                   4
                                           5
                                                                   8
                                                   6.
                                                                                  10
 CORF 0 0200 0 0200 0 0140 0 0100 0 0140 0 0200 0 0040 0 0100 0 0040 0 0110
edia
egion
           1
                           3
                                           5
                                                   Ŀ
                                                           7
                                                                   \Xi
                                                                                  1 \le
dia 11
 gion
VCOEF 0.0152 0.0152 0.0137 0.0061 0.0107 0.0076 0.0152 0.0122 0.0107 0.0076
 COEF 0.0137
្ឋារន
egion
<u>400EF 0.0213 0.0213 0.0213 0.0213 0.0213 0.0123 0.0085 0.0213</u>
dia
Egion
/COEF 0.0752 0.0301 0.0150 0.0075
iportance of controlling ANY Region
ithin its Media as compared to the Importance
 controlling ANY Region of any other Media
dia
                                           5
egion
                           3
<u> KCOEF 0.0087 0.0087 0.0061 0.0043 0.0061 0.0087 0.0017 0.0043 0.0017 0.0052</u>
dia
                                                           7
egion
                   2
                           3
                                   4
                                           5
                                                   6
                                                                   8
                                                                           Ç)
                                                                                   10
edia 11
 gion
 -COEF 0. 0033 0. 0033 0. 0030 0. 0013 0. 0023 0. 0017 0. 0033 0. 0026 0. 0023 0. 0017
VC:0EF 0.0030
r di a
igion 1 2 3 4 5 6 7
200EF 0.0056 0.0056 0.0056 0.0033 0.0022 0.0056
edia
gion
COEF 0.0045 0.0024 0.0013 0.0007
```

FORCE ELEMENT IMPORTANCE (LOC 3)

		VECUL 57		
	ELEMENT	FORCE ELEMENT		
RANEING	NUMBER	NAM≅	VALUE	
1	17	CARRIER BATTLE GROUP	0.139	
2	1	AIR INTERVICTION	0 110	_
3	3:	AFMY GROUND	0. 0위된	
4	1 ⋵	ATTACK SUBB	0. 073	
5	19	SURFACE COMBATANTS	0, 060	
6	8	RAPID DEPLOY	0, 058	
7	12	THEATER NUCLEAR WEAFOR	0, 054	
្ន	14	ABW(LAND BABED)	0. 043	
9	٥	CAS	0.040	
10	22	AIR SUPERIORITY(LAND BA	SED) 0 038	
11	15	ASW(SEA BASED)	0, 032	
12	23	AIR SUPERIORITY(SHIP BA		
13	21	AIR DEFENSE(SHIP BASED)	0 027	1 554
14	10	STRATEGIC BOMBER	0. 025	
15	25	SPCE BASED WEAPON(AIR C	NTRL)0 019	
1.6	13	SPECIAL OFERATIONS		
17	29	ASAT(SPACE BASED)	0.013	0, 935
1⊜	18	MINE WARFARE	0.013	0, 924
19	2	AMPHIBIOUS ASSAULT	0.010	0.713
20	28	ASAT(LAND BASED)	0.007	0.516
21	20	AIR DEFENSE (LAND BASED)	0, 004	0. 264
22	9	SPOE-BASED WEAPON(LND C	NTRL)0.003	0.201
23	30	SPCE BASED WEAPON(SEA C	NIBL)0 002	0.118
24	27	ABM(SPACE BASED)	0, 000	0.000
25	26	ABM(LAND BASED)	0, 000	0.000
26	24	INTERCEPTOR AIRCRAFT	0.000	O. OCO
27	11	SLEM	0, 000	Q , Q QQ
28	7	ICBM	0.000	0.000
29	5	CIVIL DEFENSE	Q. Q QQ	
30	4	CEW	0, 000	0.000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5, 44
ARMY GROUND	4, 19
CAS	1, 62
ICBM	0.00
STRATEGIC BOMBER	1.76
SLEM	O, QQ
ASW(SEA BASED)	1, 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	2, 73 2, 16
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0.52
	33 99

TIN

AIR INTERDICTION	5, 62
ARMY GROUND	1. 78
CAS	1, 77
STRATEGIC BOMBER	1.76
ASW(LAND BASED)	3. 0 9
ASW(SEA BASED)	1.11
ATTACK SUBS	5, 23
CARRIER BATTLE GROUP	10 00
MINE WARFARE	0. 92
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED)	2 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	0, 00
ABM(LAND BASED)	0.00
	40.47

NICKEL

· · · · · · · · · · · · · · · · · · ·	
AIR INTERDICTION	5 33
ARMY GROUND	4 56
CAS	1.60
STRATEGIC BOMBER	1. 76
ABW(BEA BABED)	1.71
ATTACK SUBS	5, 23
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0. 92
SURFACE COMBATANTS	4 29
AIR SUPERIORITY(LAND BASED)	2. 73
AIR SUPERIORITY(SHIP BASED)	2.16
INTERCEPTOR AIRCRAFT	0. 00

FLUORSPAR ACID

AIR INTERDICTION	6. 79
AMPHIBIOUS ASSAULT	0. 71
ARMY GROUND	3, 42
CAS	1. 90
ICBM	0.00
STRATEGIC BOMBER	1. 76
SLBM -	0.00
ASW(LAND BASED)	3. 0 9
ASW(SEA BASED)	1, 63
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 29
AIR SUPERIORITY(LAND BASED)	2. 73
AIR SUPERIORITY(SHIP BASED)	2, 16
INTERCEPTOR AIRCRAFT	0. 00
ARM(LAND BASED)	0.00
	38, 50

PYRETHRUM

40, 30

ARMY GROUND	2, 49
CIVIL DEFENSE	0. 00
ASW(SEA BASED)	0.14
CARRIER BATTLE GROUP	10, 00
BURFACE COMBATANTS	4, 29
	14 97
BURFAUE COMBATANTS	4. 2 16. 9

COMMODITY NORMALIZED IMPORTANCE

TIN	10.00	(40
NICKEL	9 , 96	(40
FLUORSPAR ACID	9, 51	(38
COBALT	8, 40	(33
FYRETHRUM	4, 18	(1 ć

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COBALT
                                                    67 4028
            CAS
A-10
                                                    44, 9352
            CAS
COBRA
                                                    98 5202
            AIR INTERDICTION
F-4
                                                     6,7403
            CAS
                                                    68, 4168
            AIR
                INTERBICTION
F-16
            CAS
                                                    37,4460
                                                     3, 3701
ART. ACRET
            CAS
RADIO RLAY AIR INTERDICTION
                                                     3, 0788
                                                     2, 5276
            CAS
                                                   123 1503
            AIR INTERDICTION
F-111
                                                    36 9451
            AIR INTERDICTION
A-6
                                                    54, 7335
            AIR INTERDICTION
F-15
                                                    49, 2601
            AIR INTERDICTION
A-7
                                                    41, 0501
            AIR INTERDICTION
F-14
                                                    68, 4168
F-18
            AIR INTERDICTION
                                                     6 0683
            ASN(SEA BASED)
SH-3
                                                    15 1708
            ASW(SEA BASED)
SH-2
                                                    23, 5990
            ASW(SEA BASED)
SH-60B
                                                    34.6761
            ASW(SEA BASED)
S-3
                                                    24, 0807
            ASW(SEA BASED)
ATT. SUBS
            ASW(SEA BASED)
                                                    14, 4484
FRIGATES
                                                     8. 6690
            ASW(SEA BASED)
DISTROYERS
                                                    35, 2006
            ARMY GROUND
M-48
                                                    56, 5724
M-60
            ARMY GROUND
                                                    62, 8582
            ARMY GROUND
M-1
                                                     0 2095
M-551
            ARMY GROUND
                                                    50, 2866
            ARMY GROUND
M-901
                                                    44,0008
            ARMY GROUND
M-2/M-3
                                                     4.8890
            ARMY GROUND
M-113
                                                    18, 8575
            ARMY GROUND
MLRS
                                                    25, 1433
            ARMY GROUND
TOWED ART.
                                                    33, 5244
SELF-PROP.
            ARMY GROUND
                                                    16, 7622
PERSHING
            ARMY GROUND
                                                    27. 9370_
GLOME
            ARMY GROUND
6. 9842
            ARMY GROUND
                                                    34, 2228
MORTERS
            ARMY GROUND
ROLES LNOH ARMY GROUND
                                                      1. 4667
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0834
0000
6488
5729
3333
0000
8583
7789
77222
2685
0417
                                                                                        9163
5313
3611
2319
1732
7039
                                                                                                                    4928
4552
                                                                                                                             3520
          5473
5556
4732
                      1042
                          5938
4444
  ರಯಯಾಗುಗುತ್ತಕ್ಕಾಡದಾದದ್ದಿನಿನಿನ
NORMALIZED VALUES
                                                                                                                                    RCLES LNCH
M-551
                                                                                                                        RADIO RLAY
M-113
                                                                                                                                  NRT ACRFT
                                                                                                             STROYERS
                                                                                OWED ART.
                                                                                     ATT, SUBS
                                                                        SELF-PROP
                                                                                                ERSHING
                                                                                                        RIGATES
                                                                                                                 NFANTRY
                                                                    MORTERS
                                               1-2/M-3
                                                                                         SH-60B
MLRS
                                                                            GLCMS
                                           COBRA
                                    M-901
                                                                                                     3.<del>1.</del>2
                                                                                                                      W. + 0
                                                            M-48
S-3
                                F-15
                                                        9-V
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1114
A-10
            CAS
                                                    67.4028
COBRA
            CAS
                                                    59, 9136
F-4
            AIR INTERDICTION
                                                    98, 5202
            CAS
                                                     6.7403
F-16
            AIR INTERDICTION
                                                    68, 4168
            CAB
                                                    37, 4440
     ACRET CAS
ART.
                                                     3.3701
RADIO RLAY AIR INTERDICTION
                                                     3, 0788
            CAS
                                                     2 5276
F-111
            AIR INTERDICTION
                                                   123, 1503
A-6
            AIR INTERDICTION
                                                    41, 5632
F-15
            AIR INTERDICTION
                                                    54, 7335
A-7
            AIR INTERDICTION
                                                    49, 2601
F-14
            AIR INTERDICTION
                                                    46, 1814
            AIR INTERDICTION
F-18
                                                    76, 9689
SH-3
            ASW(SEA BASED)
                                                     5, 2014
SH-2
            ASW(SEA BASED)
                                                    13,0036
SH-60E
            ASW(SEA BASED)
                                                    20, 2277
9-3
            ASW(SEA BASED)
                                                    34, 6761
ATT. SUBS
            ASW(SEA BASED)
                                                    14, 4454
FRIGATES
            ASW(SEA BASED)
                                                    14.4484
DSTROYERS
            ASW(SEA BASED)
                                                     8,6690
M-48
            ARMY GROUND
                                                     3, 9112
M-60
            ARMY GROUND
                                                     6, 2858
M-1
            ARMY GROUND
                                                    34, 9212
M-551
            ARMY GROUND
                                                     0.0698
M-901
            ARMY GROUND
                                                     6, 2858
M-2/M-3
            ARMY GROUND
                                                     6. 285余
M-113
            ARMY GROUND
                                                     0.6984
MLRS
            ARMY GROUND
                                                     9, 4287
TOWED ART.
            ARMY GROUND
                                                     4, 1905
SELF-PROF.
            ARMY GROUND
                                                     5, 5874
PERSHING
            ARMY GROUND
                                                    14.6669
GLOME
            ARMY GROUND
                                                    24, 4449
INFANTRY
            ARMY GROUND
                                                    55 8740
            ARMY GROUND
MORTERS
                                                     4, 8890
ROLES LNOH ARMY GROUND
                                                     0.2095
```

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5962
            2500
4732
8651
5371
                         4537
4224
3970
                                                                                           3403
                                                                                              3176
                                                                                                 2737
   ೦೦೦೦∢ಲ4444000000
                                                         440000000000000000
NORMALIZED VALUES
                                                                              RLAY
                                                           SH-2
MLRS
DSTROYERS
                                                                                 ELF-PROP
                                                                                           ART
                                                  PERSHING
PRIGATES
                     INFANTRY
                                                                                       MORTERS
                                                                     1-2/M-3
1-901
                                              309-HS
                                                                                           OMED
                                                                              RADIO
                                                                                                    M-113
RCLES
                                        S-3
GLCMS
                  COBRA
            F-18
A-10
      F-16
                                                                           M-60
                                                                                     \frac{1}{2}
                               F-14
                                                                                              M-40
```

•	NICKEL			
	A-10	CAS	67. 40.	38
	COBRA	CAS	44 🕾 35	52
	F-4	AIR INTERDICTION	73, 899	02
		CAS	5. 05°	52
	F-16	AIR INTERDICTION	68 41 ·	4.Ξ
T.		CAS	37, 44	
₿.	ART, ACRET		2, 24	
	RAPIO RLAY	AIR INTERDICTION	3, 07	
		CAS	2. 52	7 <i>6</i> .
	F-111	AIR INTERDICTION	123, 150	03
٠,	A-6	AIR INTERDICTION	36, 94	51
_	F-15	AIR INTERDICTION	5473	35
	A-7	AIR INTERDICTION	49. 26	01
	F-14	AIR INTERDICTION	46.18	14
	F-18	AIR INTERDICTION	76. 96	
	SH-3	ASW(SEA BASED)	6. 93	
	SH~2	ASW(SEA BASED)	17, 33	
	SH~60B	ASW(SEA BASED)	26, 97	03
	S-3	ASW(SEA BASED)	34. <i>6</i> 7	
		ASW(SEA BASED)	43, 34	52
		ASW(SEA BASED)	26, 00	71
	DSTROYERS	ASW(SEA BASED)	15, 60	43
	M-48	ARMY GROUND	39. 11	18
•	M-60	ARMY GROUND	62, 85	82
•	M-1	ARMY GROUND	<i>6</i> 9, 84	25
	M-551	ARMY GROUND	0. 69	8:4
	M-901	ARMY GROUND	44. 00	08
	M-2/M-3	AFMY GROUND	50, 28	64
	M-113	ARMY GROUNI	4, 88	90
	MLRS	ARMY GROUND	18, 85	75
L	TOWED ART	ARMY GROUND	33. 5 2.	44
	SELF-PROP.	ARMY GROUND	44 69	c, :_
.•	PERSHING	ARMY GROUND	16. 76	22
	GLCMS	ARMY GROUND	20, 95	27
	INFANTRY	ARMY GROUND	34, 92	12
_	MORTERS	ARMY GROUND	14.66	69
	RCLES LNCH	ARMY GROUND	0. 20	95

10. 0000 8. 5962 6. 4105	6, 2500 5, 6713																							
NORMALIZED VALUES F-111 F-16 F-4	π-18 3-1	M-10 M-60	F-15 M-2/M-3	A-7	COERA	SELF-PROP.	201	ATT, SUBS	M-43	INFONTRY	6-6	TOWED ART.	SH-60B	FRIGATES	MLRS ΩH=2	PERSHING	DSTROYERS	MORTERS	0-II	RADIO RLAY	-113	ART. ACRET	٠ ان	MUNITED TOOL

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FLUORSPAR ACID
                                                    84, 2536
            CAE
A-10
                                                    44 9353
CORRA
            CAS
                                                       1513
F-4
            AIR INTERDICTION
                                                       4254
            CAS
                                                     8
                                                    85 5210
            AIR INTERDICTION
F-16
            CAS
                                                    46 8075
                                                     3, 3701
ART. ACRET CAS
RADIO RLAY AIR INTERDICTION
                                                     3,0738
                                                     2, 5276
            CAS
            AIR INTERDICTION
                                                   153, 9378
F-111
                                                    46. 1814
            AIR INTERDICTION
A-6
F-15
                                                    68, 4168
            AIR INTERDICTION
                                                    61, 5751
A-7
            AIR INTERDICTION
                                                    51, 3126
F-14
            AIR INTERDICTION
                                                    85 5210
            AIR INTERDICTION
F-18
                                                     6, 9912
            ASW(SEA BASED)
SH-3
                                                    17, 3381
SH-2
            ASW(SEA BASED)
                                                    33, 7129
SH-SOB
            ASW(SEA BASED)
            ASW(SEA BASEI)
9-3
                                                    43, 3452
            ASW(SEA BASED)
                                                    28, 8968
ATT. SUBS
            ASW(SEA BASED)
                                                    20, 2277
FRIGATES
                                                    12, 1367
DSTROYERS
            ASW(SEA BASED)
M-48
            ARMY GROUND
                                                    11, 7335
                                                    18 8575
M-60
            ARMY GROUND
                                                    20, 9527
            ARMY GROUND
M-1
                                                     0.2095
M-551
            ARMY GROUND
M-901
            ARMY GROUND
                                                    50, 2866
M-2/M-3
            ARMY GROUND
                                                    50, 2866
                                                     5, 5874
M-113
            ARMY GROUND
            ARMY GROUND
                                                    15, 7146
MLRS.
                                                    20, 9527
TOWED ART.
            ARMY GROUND
SELF-PROP.
            ARMY GROUND
                                                    27, 9370
PERSHING
            ARMY GROUND
                                                    14,6669
                                                    24, 4449
            ARMY GROUND
GLCMS
                                                    55, 8740
INFANTRY
            ARMY GROUND
            ARMY GROUND
                                                    24, 4449
MORTERS.
                                                      0.2095
RCLES LNCH ARMY GROUND
```

0208 9528 3642 3630 2180 8772 8148 5880 5880 5880 3140 2250 1263 7622 4505 8158 1900 2667 0000 9191 7884 4444 0000 6296 3333 2667 3611 ರಯಯಾಗುತ್ತಾರಗಳು ಅವರು ಚಿತ್ರಕ್ಕೆ ಕ್ರತ 4444000000000 VORMALIZED VALUES FFT FILAY SURS ART. SELF-PROP RIGATES PERSHING STROYER NFANTRY 5 IORTERS ART, A FCLES M-SS1 1-2/M-3 1-901 RADIO M-113 3H-60B CIMED A-6 COBRA SHUTE ATT 4-60 MLRS 1-48 SH-2 -14 @T-51-9 7

PYRETHRUM
ATT. SUBS ASW(SEA BASED)
M-48 ARMY GROUND
M-60 ARMY GROUND
M-113 ARMY GROUND
TOWED ART. ARMY GROUND
SELF-PROP. ARMY GROUND
INFANTRY ARMY GROUND
MORTERS ARMY GROUND

14. 4484 27. 3783 44. 0008 4. 8890 29. 3338 39. 1118 69. 8425 34. 2228

NORMALIZED VALUES

INFANTRY 10.0000 M-60 6.3000 SELF-PROP. 5.6000 MORTERS 4.9000 TOWED ART. 4.2000 M-48 3.9200 ATT. SUBS 2.0687 M-113 0.7000

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ALL COMMODITIES
A-10
                                                     2,8646
            CAE
                                                     1, 9472
COERA
            CAS
            AIF
                INTERDICTION
                                                       9408
F-4
            CAS
                                                       2696
            AIR INTERDICTION
                                                       9077
                                                       5915
            CAS
     ACRET CAS
                                                     0.1236
ART.
RADIO RLAY AIR INTERDICTION
                                                     Ō.
                                                       1232
            CAS
                                                     Q.
                                                       1011
                                                       2339
            AIR
                INTERDICTION
                                                     5
F-111
            AIR INTERDICTION
                                                     1.
                                                       6163
A-6
                                                     2.
                                                       3141
F-15
            AIR INTERDICTION
                                                     2. 0936
            AIR INTERDICTION
A-7
                                                     1.8473
F-14
            AIR INTERDICTION
            AIR INTERDICTION
                                                     3,0788
F-18
                                                     0.2514
SH-3
            ASW(SEA BASED)
                                                     0. 6285
            ASW(SEA BASED)
SH-2
                                                     1.0451
SH-60B
            ASW(SEA BASED)
            ASW(SEA BASED)
                                                     1.4737
5-3
                                                       2522
            ASW(SEA BASED)
     SUES
ATT.
                                                     0.7513
            ASW(SEA BASED)
FRIGATES
                                                     0.4508
            ASW(SEA BASED)
DISTROYERS
                                                     1, 1734
            ARMY GROUND
M-48
            ARMY GROUND
                                                      1, 8857
M-60
            ARMY GROUND
                                                      1.8857
M-1
            ARMY GROUND
                                                     0.0119
M - 551
                                                        5084
M-901
            ARMY GROUND
                                                        5086
            ARMY GROUND
M-2/M-3
                                                      0.2095
M-113
            ARMY GROUND
                                                     0.6286
MLRS
            ARMY GROUND
                                                      1.1314
            ARMY GROUND
TOWED ART.
            ARMY GROUND
                                                      1,5086
SELF-PROP.
                                                      0.6286
            ARMY GROUND
PERSHING
                                                      0.9778
GLCME
            ARMY GROUND
                                                      2, 2350
INFANTRY
            ARMY GROUND
                                                      1, 1245
MORTERS
            ARMY GROUND
                                                      0.0210
ROLES LNCH ARMY GROUND
```

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8682
4355
2010
2010
2008
2008
8613
4803
                          2702
0000
7204
6000
5000
5000
6000
6002
6002
8024
8024
8024
1418
                                                                                1484
9968
          0445
8824
4732
4444
      VORMALIZED VALUES
                                                                                                                              LNUH
                                                                                                                           ACRET
                                                                                                                   RADIO RLAY
                                                                                                    MLRS
SH-2
DSTROYERS
                                                                     SUBS
                                                             SELF-PROF
                                                                             TOWED ART
                                                                                                PERSHING
                          INFANTRY
                                                                                MORTERS
                                                                                            FRIGATE
                                                                                    3H-60B
                                                                                                                               FILES
                                                                                         GLCMS
                                                         100-1
                       F-15
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CRITICALITY OF SHORTFALL

ALL FE S (LOC 3)

	GOAL	STOCK PILE	SHORT FALL	TRANS-	FE/ CMODITY	CRITIC-	NORMALIZED FE/SHRTFALL
COMMODITY	(UNITS)	(UNITS)	(%)	LATED	IMPORT.	ALITY	CHITICALITY
BALT	85 4	43 8	-48 7	402 5	⊜ 4	33 7 9, 9	7 ≥
N - '-	4£ 0	190 6	353.8	0.0	10.0	ϕ ϕ	$Q \circ Q$
CHEL	200. 0	32.2	-83.9	437.7	10.0	4359 1	10.0
JORSPAR ACID	1400. O	୫୭୭. ୦	-36 1	ଓଟନ, ନ	9.5	3708 3	8 5
RETHRUM	500. 0	O. O	-100 0	453, 8	4. 2	1897.6	4 4

COMPOSITE IMPORTANCE (LOI 3)

COPALT

Linco	AMOUNT SUFFLIED	% OF TOTAL	COMPOSITE IMPORTANCE	1701	%(1/11)
LIRCE			1. 72	0. 580	3.731
NLAND	1350.	6.43			
)R0000	450.	2.14	2, 05	0.497	$1 \in \mathbb{C} \setminus \mathbb{P}$
TEWANNA	25 0.	1.19	1 76	O 569	O 678
UTH AFRICA	15 0.	0.71	2 31	0.432	O. 309
IRE	12500	59, 52	1. 72	0, 580	34 543
MB1A FILIPFINES	3500.	16.67	1. 76	0.569	9, 490
ILIPPINES	5 0.	0. 24	0, 82	1. 216	0. 289
JSTRALIA	400.	1. 90	0.82	1. 216	2 316
W CALEDONIA	250	1 19	0 82	1 216	1 447
lnapa	1100.	5, 24	2 61	0.383	2, 007
S	1000	4 76	2, 31	0. 432	2, 059

COMPOSITE IMPORTANCE (LOC 3)

TOTAL: 21000. 100.00

TIN

1	AMOUNT	% OF	COMPOSITE		
DURCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/CI)
STRALIA	100.	0. 15	0. 82	1. 216	0.180
is	16100	23, 82	2. 31	0. 432	10 299
HAILAND	5900.	8. 73	0.82	1. 216	10.611
DONESIA	5800.	8. 58	0.82	1. 216	10, 431
•	100.	0. 15	1. 76	0. 569	Q. 084
DLIVIA	10300.	15. 24	0. 90	1. 117	17.014
PAZIL	2400.	3, 55	0. 90	1. 117	3.964
E	3000.	4. 44	2. 33	0. 429	1, 905
LAYSIA	23900.	35. 36	0. 82	1. 216	42, 983
TOTA	L: 67600.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

NICHEL

AMULINIT	% OF	COMPOSITE		
SUPPLIED	TOTAL	-	1/CT	
10000.	0.33		-	0.151
5000.	1. 64	2.31 0	. 432	0.711
5 000.	1. 64	0.82 1	. 216	1. 957
25000.	8 21	0.82 1	. 216	ଇ ନଥର
15 0000.	48, 28	2. 61 0	0.383	18 877
88000.	28 91	2, 31 0	432	12 501
60 0.	0. 20	1. 76 0	569	0 112
200	0.07	1.76 0	U 549	0.037
100.	0. 03	1. 76 0	569	0.019
500	0.16	1.76 0	569	$O = O^{\frac{1}{2}} A$
5 000.	1.64	0, 86 1	. 160	1. ୨୦୭
15000.	4, 93	1.38 0	・フェフ	3, 592
4000	1 31	1.38 0	727	0. 오등장
5000	1 64	0.82 1	216	1. 997
	1000. 5000. 5000. 25000. 150000. 88000. 600. 200 100. 5000. 15000. 4000	\$U\$PLIED TOTAL 1000. 0.33 5000. 1.64 5000. 1.64 25000. 8.21 150000. 40.28 88000. 28.91 600. 0.20 200 0.07 100. 0.03 500 0.16 5000. 1.64 15000. 4.93 4000 1.31	SUPRLIED TOTAL IMPORTANCE 1000 0.33 1.72 0 5000 1.64 2.31 0 5000 1.64 0.82 1 25000 8.21 0.82 1 15000 49.28 2.61 0 88000 28.91 2.31 0 600 0.20 1.76 0 200 0.07 1.76 0 100 0.03 1.76 0 500 0.16 1.76 0 500 1.64 0.86 1 15000 4.93 1.38 0 4000 1.31 1.38 0	SUPPLIED TOTAL IMPORTANCE 1/01f 1000. 0.33 1.72 0.580 5000. 1.64 2.31 0.432 5000. 1.64 0.82 1.216 25000. 8.21 0.82 1.216 150000. 40.28 2.61 0.383 88000. 28.91 2.31 0.432 600. 0.20 1.76 0.569 200 0.07 1.76 0.569 100. 0.03 1.76 0.569 500. 1.64 0.86 1.160 15000. 4.93 1.38 0.727 4000 1.31 1.38 0.727

TOTAL: 304400. 100.00

COMPOSITE IMPORTANCE (LOC 3)

FLUORSPAR ACID

SOURCE SSOURCE SSOUTH AFRICA U S ITALY STAIN E ST AFRICA		AMOUNT SUPPLIED 180. 70. 65. 100. 25.	% OF TOTAL 22, 36 8, 70 8, 07 12, 42 3, 11	COMPOSITE IMPORTANCE 2: 31 2: 31 1: 76 1: 76 1: 76	1701 0. 432 0. 432 0. 569 0. 569 0. 569	%(1/CI) 9, 649 3, 740 4, 597 7, 073 1, 769
THAILAND MEXICO	TOTAL:	25. 15. 350. 	1. 86 43. 48 	0, 82 2, 31	1. 216 0. 432	2, 265 18, 801

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

• .	AMOUNT	% OF	COMPOSITE		
SUURCE	SUPPLIED	TOTAL	IMPORTANCE	1/CI	%(1/CI)
SOUTH AFRICA	2000.	1. 01	2. 31	0. 432	0, 438
AUSTRALIA	1500.	0.76	0. 82	1. 216	0 923
U	11000.	5. 57	1. 76	0. 569	3, 171
KE IYA	80000.	40, 51	1.76	0. 569	23, 063
RWANDA	25000	12. 66	1. 76	0. 569	7. 207
TONZANIA	78000	39.49	1.76	0. 569	22 487

TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/01) COME IME	FE/SHORTFALL CRITICALITY		ORMALIZED TO 10:
BALT FINLAND MOROCCO BOTSWANNA SOUTH AFRICA ZAIRE ZAMBIA HHILIPFINES AUSTRALIA NEW CALEDONIA CANADA U S	3, 731 1, 043 0, 678 0, 309 34, 543 9, 490 0, 289 2, 316 1, 447 2, 007 2, 050	7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76 7. 76	28, 93 8, 09 5, 26 2 40 267, 90 73, 60 2, 24 17, 96 11, 22 15, 56 15, 77	.10, 80 3, 02 1, 96 0, 89 100, 00 27, 47 0, 84 6, 70 4, 19 5, 81 5, 94
N AUSTRALIA U S THAILAND INDONESIA 'UK BOLIVIA BRAZIL PRO MALAYSIA	0, 180 10, 299 10, 611 10, 431 0, 084 17, 014 3, 964 1, 905 42, 983	0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00 0. 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00
FREL FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FOG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0, 191 0, 710 1, 997 9, 985 18, 877 12, 501 0, 112 0, 037 0, 019 0, 094 1, 905 3, 582 0, 955 1, 997	10, 00 10, 00	1, 91 7, 10 19, 97 99, 85 188, 77 125, 01 1, 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55 19, 97	0.71 2.65 7.45 37.27 70.46 46.62 0.14 0.07 0.35 7.11 13.37 7.45
JORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 768 2, 265 18, 801	8, 51 8, 51 8, 51 8, 51 8, 51 8, 51 8, 51	82, 28 32, 00 39, 12 60, 19 15, 05 19, 28 159, 98	30, 71 11, 94 14, 60 22, 47 5, 62 7, 20 59, 72
RETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0, 438 0, 923 3, 171 23, 063 7, 207 22, 487	4, 35 4, 35 4, 35 4, 35 4, 35 4, 35	1, 91 4, 02 13, 81 100, 42 31, 38 97, 91	0, 71 1, 50 5, 15 37, 49 11, 71 36, 55

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

			_
	SOURCE	COMMODITY	VALUE
	ZAIRE	COBALT	100, 00
	CANADA	NICHEL '	70.45
	MEXICOL -	FLUORSPAR ACID .	59, 72
1		NICKEL	46.66
	KENYA	PYRETHRUM	37, 49
		NICKEL	37, 27
		PYRETHRUM	36. 55
			30.71
		COBALT	27. 47
ı			27. 47
			14. 60
	DOM. REPUB	NICKE:	13, 37
	US	FLUORSPAR ACID	11. 94
	RWANDA	PYRETHRUM	11. 74
	FINLAND	FIRE INDUN	
	INDONESIA	NICKEL	10.80
	PHILIPPINES	NIUNEL	7, 45
	ITALY DOM. REPUB U S RWANDA FINLAND INDONESIA PHILIPPINES THAILAND	NICKEL FLUORSPAR ACID	7 45
	1 UH 7 THINT.	FLUURSFAR ALID	7, 20
	AUSTRALIA	NICKEL	7. 11
		COBALT	6 . 7 0
:	US	COBALT	5, 96
i	CANADA	COBALT	5, 81
i		FLUORSPAR ACID	5, 62
		PYRETHRUM	5, 15
	NEW CALEDONIA		4.19
	GUATAMALA	NICKEL	3, 57
	MOROCCO	COBALT	3 02
ı	SOUTH AFRICA	NICHEL	2, 65
	BOTSWANNA	COBALT	1. 96
)	AUSTRALIA	PYRETHRUM	1, 50
		COBALT	O. 89
		COBALT	Q. 84
;		FYRETHRUM	0. 71
	FINLAND	NICKEL	0. 71
	GREECE	NICKEL	0.42
	YUGOSLAVIA	NICKEL	0, 35
,	NETHERLANDS	NICKEL	0.14
	FRG	NICKEL	0. 07
	MALAYSIA	TIN	0. 00
-	PRC	TIN	0.00
	BRAZIL	TIN	0. 00
	BOLIVIA	TIN	0. 00
,	UK	TIN	0. 00
	INDONESIA	TIN	0. 00
	THAILAND	TIN	0. 00
)	US	TIN	0.00
,	AUSTRALIA	TIN	0.00
	··- w · / 11 / 100 @ / 1	1.017	0. 00

SCENARIO 9

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA " "
                  Level of Conflict 3 Media 1
                                                       7
                                                              8
         1
gion
light
                                5.0
                                              10.0
                                                              5 0
        10.0
                10.0
                        7. 0
                                       7. 0
                                                       2. Q
                                                                      2.0
                                                                             6 0
CÕEF O.1563 O.1563 O.1094 O.0781 O.1094 O.1563 O.0313 O.0781 O.0313 O.0938
                 Level of Conflict 3 Media 2
                                                       7
Q1 0 ft
         1
31 on
        11
ight
                10.0
                        9. 0
                                4. 0
                                        7. Q
        10.0
                                               5. 0
                                                      10.0
                                                                             5.0
                                                              8.0
                                                                      7. 0
ight
         9. 0
COEF 0.1190 0.1190 0.1071 0.0476 0.0833 0.0585 0.1190 0.0952 0.0833 0.0585
DOEF 0. 1071
                 Level of Conflict 3 Media 3
                        3:
         1
gion
light
        10 0
                               10.0
                10.0
                       1 \odot 0
                                               4. O
                                       6.0
                                                      10.0
♪COEF 0.1667 0.1667 0.1667 0.1667 0.1000 0.0667 0.1667
                 Level of Conflict 3 Media 4
gion
ight
                 2
         1
        10.0
                4 0
                        2. 0
                                1 - 0
NOEF 0.5882 0.2353 0.1174 0.0589
            INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
            or the Importance of Controlling EACH region within its own Media
dia 1
gion 1 2 3 4 5 6 7 8 9 10
COEF 0.0200 0.0200 0.0140 0.0100 0.0140 0.0200 0.0040 0.0100 0.0040 0.0120
dia
pion
                         3
                                         5
                                 4
                                                6.
                                                               8
                                                                              10
dia 11
gion
NOEF 0.0152 0.0152 0.0137 0.0061 0.0107 0.0076 0.0152 0.0122 0.0107 0.0076
COSF 0.0137
dia
pion
 JOEF 0,0213 0,0213 0,0213 0,0213 0,0128 0,0085 0 0213
dia
gion 1 2 3 4
DOEF 0.0752 0.0301 0.0150 0.0075
portance of controlling ANY Region
Pthin its Media as compared to the Importance
controlling ANY Region of any other Media
dia
                         3
                                         5
gion
                                                6
COEF 0.0087 0.0087 0.0061 0.0043 0.0061 0.0087 0.0017 0.0043 0.0017 0.0052
dia
                  2
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                                                                ε
                                                                              10
gion
          1
dia 11
caion
/COEF 0.0033 0.0033 0.0030 0.0013 0.0023 0.0017 0.0033 0.0026 0.0023 0.0017
 COEF 0. 0030
dia
gion
|COEF 0.0054 0.0054 0.0054 0.0054 0.0033 0.0022 0.0054
dia
kgion
MODEF 0.0045 0.0026 0.0013 0.0007
```

FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZED
RANE ING	NUMBER	NAME	VALUE	VALUE
i	17	CARRIER PATTLE GROUP	0.139	10,000
2	. 1	ALE INTERLICTION	0 105	7.551
3	3	ARMY GROUND	0, 090	6 . 5 00
4	1.6	ATTACK SUBS	0, 073	5. 264
5	8	RAPID DEPLOY	0.064	
- 6 7	1 🖘	SUFFACE COMBATANTS	0.060	
7	12	THEATER NUCLEAR WEARON	0.046	명. 교육왕
8	14	ASW(LAND BARED)	0.043	
9	ራ	CAS	0.038	
10	22	AIR SUPERIORITY (LAND B		
11	15	ASW(SEA BASED)	0.032	
12	23	AIR SUPERIORITY (SHIP B		
13	21	AIR DEFENSE (SHIP BASED		
1 4	10	STRATEGIC FOMBER	0.004	1. 7 07
15	13	SPECIAL OPERATIONS	0. 020	
16	25	SPCE BASED WEAPON(AIR		
17	29	ABAT(SPACE BASED)	0.013	
18	18	MINE WARFARE	0.013	
19	2	AMPHIFIQUS ASSAULT	0,000	
20	29 20	ASAT(LAND BASED)		
21	20	AIR DEFENSE (LAND PASED	· · · · · · · ·	
22 23	Ф.	SPOE-BASED WEAPON(LND	CNTHL) 0, 003	O. 186
	30	SPOE BASED WEAPON(SEA		
24 25	27	ABM(SPACE BARED)	Q QQQ	
	26	ABM(LAND BASED)	0.000	
26	24	INTERCEPTOR AIRCHAFT		
27	11	SLEM	0. 000	
28	7	ICEM	0.000	
29	5	CIVIL DEFENSE	0, 000	
30	4	CBW	0, 000	0, 000

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5, 22
ARMY GROUND	3, 98
CAS	1, 54
ICBM	0, 00
STRATEGIC BOMBER	1.71
SLBM	0, 00
ASW(SEA BASED)	1. 25
CARRIER BATTLE GROUP	10,00
SURFACE COMPATANTS	4, 33
AIR SUPERIORITY(LAND BASED)	2, 63
AIR SUPERIORITY (SHIP BASED)	2, 06
INTERCEPTOR AIRCRAFT	0, 00
ASAT (LAND BASED)	0, 52
	C.C. C.C.

33, 23

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TIN	
AIR INTERDICTION ARMY GROUND CAS STRATEGIC BOMSEF ASW(LAND BASED) ATTACK SUBS CARRIER BATTLE GROUP MINE WARFARE SURFACE COMEATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT ABM(LAND BASED)	5 31 1, 69 1, 69 1, 71 3 07 1, 09 5, 20 10 00 0, 91 4, 33 2, 63 2, 06 0, 00 0, 00
	39, 84
NICKEL	

AIR INTERDICTION	5 11
ARMY GROUND	4, 33
CAS	1.52
STRATEGIC BOMBER	1.71
ASW(SEA BASED)	1.68
ATTACK SUBS	5, 26
CARRIER BATTLE GROUP	10.00
MINE WARFARE	0.91
SURFACE COMBATANTS	4, 33
AIR SUPERIORITY(LAND BASED)	2, 63
AIR SUPERIORITY(SHIP BASED)	2, 06
INTERCEPTOR AIRCRAFT	0.00
	39, 55

FYRETHRUM

ARMY GROUND	
CIVIL DEFENSE	
ASW(SEA BASED)	
CARRIER BATTLE GROUP	1
SURFACE COMBATANTS	

FLUORSPAR ACID

AIR INTERDICTION ("PHIRIOUS ASSAULT	6 51 0 66
ARMY GROUND CAS ICEM STRATEGIC BOMBER SLBM ASW(LAND BASED) ASW(SEA BASED) CARRIER BATTLE GROUP SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED) INTERCEPTOR AIRCRAFT ABM(LAND BASED)	3. 25 1. 81 0. 00 1. 71 0. 00 3. 07 1. 60 10. 00 4. 33 2. 63 2. 06 0. 00 0. 00

37, 64

5	COMMODITY NORMALIZED	IMPURTANCE
1	TIN	10.00
Ö	NICKEL	ବ. ୭ଓ
ī	FLUORSPAR ACID	9. 45
0	COBALT	8.34
7	FYRETHRUM	4, 23
0		

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COBALT
A-10
            CAS
                                                    64 0447
            CAS
                                                    41 6565
CODRA
                                                    94 5532
            AIR INTERDICTION
F-4
                                                     6.40/5
            CAS
            AIR INTERDICTION
                                                    65, 6640
F-16
                                                    35 5804
            CAS
                                                     3.
                                                       2022
ART, ACRET CAS
                                                     2, 9549
RADIO RLAY AIR INTERDICTION
                                                     2, 4017
            CAS
                                                   118, 1903
F-111 -
            AIR INTERDICTION
                                                    35, 4586
A-6
            AIR INTERDICTION
F-15
            AIR INTERDICTION
                                                    52, 5312
                                                    47, 2781
A-7
            AIR INTERDICTION
                                                    29, 3984
F-14
            AIR INTERDICTION
F-18
            AIR INTERDICTION
                                                    65. 6640.
SH-3
            ASW(SEA BASED)
                                                     5, 9835
                                                    14, 9588
SH~2
            ASW(SEA BASED)
                                                    23, 2692
SH-60B
            ASW(SEA BASED)
                                                    34, 1915
9-3
            ASW(SEA BASED)
                                                    23, 7441
ATT. SUBS
            ASW(SEA BASED)
                                                    14, 2465
FRIGATES
            ASW(SEA BASED)
                                                     8, 5479
DETROYERS
            ASW(SEA BASED)
                                                    33, 4283
M-48
            ARMY GROUND
M-60
            ARMY GROUND
                                                    53,7241
                                                    59, 6934
M-1
            ARMY GROUND
                                                     0.1990
M-551
            ARMY GROUND
                                                    47, 7547
M-901
            ARMY GROUND
                                                    41. 7854
M-2/M-3
            ARMY GROUND
                                                      4.6420
M-113
            ARMY GROUND
            ARMY GROUND
                                                    17, 9080
MLR:5
                                                    23.8774
            ARMY GROUND
TOWED ART.
                                                    31, 8365
SELF-PROP
            ARMY GROUND
PERSHING
                                                    15, 9182
            ARMY GROUND
                                                    26, 5304
GLCMS
            ARMY GROUND
                                                     6, 6326
INFANTRY
            ARMY GROUND
                                                    32, 4998
MORTERS
            ARMY GROUND
ROLES LNCH ARMY GROUND
                                                      1, 3928
```

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8928
                                                                            00000
9600
9600
9600
2650
7200
5060
5060
                                                                                                             4592
3928
2700
1178
0162
             5556
4186
                        5454
                                0403
                                       6124
5353
3333
                                                  0000
                                                             7497
6936
2446
0202
                            4444
                                    0000
   VORMALIZED VALUES
                                                                                                              RLAY
                                                                                                                        ROLES LICH
M-SSI
                                                                                                   DSTROYERS
INFANTRY
SH-3
                                                                 ELF-PROP
                                                                         ART
                                                                                    MLRS
PERSHING
SH-2
FRIGATES
                                                             MORTERS
                                                                               H-60B
                                                                                                             RADIO |
M-113
                                                                         OMED.
                                                                    GLCMS
                                           M-2/M-
                                       COBRA
                                M-901
                                                   Δ-0
0-0
0-0
0-4-0
0-4-0
                         09-W
                            F-15
                                               -14
      F-16
             F-18
A-10
                                    A-7
          F-4
                     F
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TIN
                                                     64. 0447
            CAS
A-10
            CAS
                                                     56 9286
COBRA
                                                     94 5562
F-4
            AIR INTERDICTION
            CAS
                                                      & 4045
            AIR INTERDICTION
                                                     65. 6640
F-16
            CAS
                                                     35 5804
ART. ACRET CAS
                                                      3, 2022
                                                      2, 9549
RADIO REAY AIR INTERDICTION
            CAS
                                                      2, 4017
            AIR INTERDICTION
F-111
                                                    118 1953
A-6
                                                     39, 2909
            AIR INTERBICTION
                                                     52, 5312
F-15
            AIR INTERDICTION
            AIR INTERDICTION
                                                     47, 2781
                                                     44, 3232
            AIR INTERDICTION
F-14
                                                     73, 8720
            AIR INTERDICTION
F-18
                                                      5, 1297
SH-3
SH-2
            ASW(SEA BASEID)
                                                     12,8218
            ASW(SEA BASED)
                                                     19, 9450
SH-60B
            ASW(SEA BASEL)
                                                     34, 1915
9-3
            ASW(SEA BASED)
ATT. SUBB
            ASW(SEA BASED)
                                                     14, 2465
FRIGATES
                                                     14, 2465
            ASW(SEA BASED)
                                                      8, 5479
DSTROYERS
            ASW(SEA BASED)
                                                      3, 7143
M-48
            ARMY GROUND
                                                      5 9693
M-60
            ARMY GROUND
                                                     33, 1630
M-1
            ARMY GROUND
M-551
            ARMY GROUND
                                                      0.0663
M-901
            ARMY GROUND
                                                      5, 9693
                                                      5, 9693
M-2/M-3
            ARMY GROUND
M-113
            ARMY GROUND
                                                      0.6633
                                                      8, 9540
MLR9
            ARMY GROUND
                                                      3, 9796
            ARMY GROUND
TOWED ART.
            ARMY GROUND
                                                      5, 3061
SELF-PROP.
            ARMY GROUND
                                                     13 9285
PERSHING
            ARMY GROUND
                                                     23, 2141
GLOMB
INFANTRY
            ARMY GROUND
                                                     53, 0608
MORTERS:
            ARMY GROUND
                                                      4.6428
                                                      0.1990
ROLES LINCH ARMY GROUND
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ľ

0000 7500 3750 8928 8058 8058 2053 1784 7232 7576 7576 7576 7576 7532 4483 8050 8050 8050 2709 0561 3142 8165 4893 565° 541° 2500 4444 4186 440000011111111111111111111111111111 VALUES LNCH NORMAL I ZED RLAY ACRFT SUBS DSTROYERS TOWED ART PERSHING SH-2 FRIGATES SH-3 MORTERS M-2/M-3 M-901 INFANTF F-15 A-7 F-14 M-60 PADIO SELF-P QĞ. 3H-40B A-10 COERA A-6 S-3 M-1 GLCMS FOLES M-001 ATT. M-48 GRT. MLRS F-18 F-16 F-4

NICHEL		
A-10	CAS	64 Q447
COERA	CAS	42 6965
F-4	AIR INTERDICTION	70 9172
	CAS	4 8014
F-16	AIR INTERDICTION	&5. &&40
	CAS	G5 5304
ART. ACRET		2 1343
RADIO RLAY	AIR INTERDICTION	2, 9549
_	CAS .	2, 4017
F-111	AIR INTERDICTION	118, 1953
A-6	AIR INTERDICTION	35. 4 586
F-15	AIR INTERDICTION	52, 5312
A-7	AIR INTERDICTION	47, 2781
F-14	AIR INTERDICTION	44 3232
F-18	AIR INTERDICTION	73, 8710
SH-3	ASW(SEA BASED)	6 . 8399
9H-2	ASW(SEA BASEI)	17, 0957
SH-60B	ASW(SEA BASED)	26, 5934
9-3	ASW(SEA BASED)	34, 1915
	ASW(SEA BASED)	42, 7394
FRIGATES	ASW(SEA BASED) ASW(SEA BASED)	25. 6436
DSTROYERS	ASW(SEA BASED)	15, 3862
M-48	ARMY GROUND	37, 1426
M-60	ARMY GROUND	5 9 6934
M-1	ARMY GROUND	6 6, 3260
M-551	ARMY GROUND	O. 6 623
M-901	ARMY GROUND	41, 7854
M-2/M-3	ARMY GROUND	47, 7547
M-113	ARMY GROUND	4.64 29
MLRS	ARMY GROUND	17 . 9090
TOWED ART.	ARMY GROUND	31,8345
SELF-PROP.	ARMY GROUND	42, 4487
PERSHING	ARMY GROUND	15, 9182
GLCMS	ARMY GROUND	1 9. 8978
INFANTRY	ARMY GROUND	33, 1630
MORTERS	ARMY GROUND	13, 9285
ROLES LNOH	ARMY GROUND	0. 1990

NORMALIZED VALUES

1. 3468 1. 3018 1. 1784 10, 0000 8, 5659 4004 4004 41116 41116 4444 3928 1506 4464 4532 0541 0.5786 RADIO RLAY M-113 ARI ACRFT M-551 FULES LNCH INFANTRY TOWED ART. SH-60B FRIGATES PERSHING DSTROYERS ATT. SUBS SELF-PROP MORTERS M-2/M-3 GLCMS COBRA M-901 9H-9 MLRS SH-2 F-14 F-16 F-18 A-10 M-60 F-15 A-7 A-F

FLUORSPAR A	ACID	
A-10	CAS CAS	80,0559
COBRA	CAS	42 6965
F-4	AIR INTERDICTION	118, 1953
	CAS	8 0054
F-16	AIR INTERDICTION	82 0800
	CAS	44, 4755
ART. ACPET	CAS	3 2022
RADIO RLAY	AIR INTERPIDITION	2 9549
	CAB	2, 4017
F-111	AIR INTERFICTION	147, 7441
A-6	AIR INTERDICTION	44, 3232
F-15	AIR INTERDICTION	65 6640
A-7	AIR INTERDICTION	59, 0976
F-14	AIR INTERDICTION	49, 2430
F-18	AIR INTERDICTION	82 0800
SH-3	ABW(BEA BABED)	6 8387
SH-2	ASW(SEA BASED)	17, 0957
SH-6OB	ASW SEA HASEIN	33 2417
5-3	ABW(BEA BABED)	42, 7394
ATT, SUBS	ASW(SEA BASED)	28 4929
FRIGATES	ABW(BEA BASED)	19, 9450
DSTROYERS	ASW(SEA BASED)	11 9670
M-48	ARMY GROUND	11 1428
M-60	ARMY GROUND	17, 9080
M-1	ARMY GROUND	19,8978
M-551	ARMY GROUND	0. 1990
M-901	ARMY GROUNI	47, 7547
M-2/M-3	ARMY GROUND	47, 7547
M-113	ARMY GROUND	5, 3061
MLRS	ARMY GROUNI	14 9294
TOWED ART.	ARMY GROUND	19, 8978
SELF-PROP	ARMY GROUND	26, 5304
PERSHING	ARMY GROUND	13 9285
GLOMS	ARMY GROUND	23 2141
INFANTRY	ARMY GROUND	53, 0608
MORTERS	ARMY GROUND	23, 2141
	ARMY GROUND	0 1990
	- · · -	

	10,0000 8,555	8.5419																	1, 2121	1, 1571					0.4628					
NORMALIZED VALUES	F-111 E-16	F-4	A-10	A-7	INFANTRY	F-14	M-2/M-3	M-901	A-6	₩-0	COBRA	SH-60B	ATT, SUBS	SELF-PROP.	Ŧ	<u>Σ</u>	M-1	TOWED ART.	-60	SH-2	Ţ	Ï	E	M-40	⊛ - ±	RADIO RLAY	M-113	ART ACRET	FCLES LNCH	

PYRETHRUM
ATT. SUBS ASW(SEA BASED)
M-48 ARMY GROUND
M-60 ARMY GROUND
M-113 ARMY GROUND
TOWED ART. ARMY GROUND
SELF-PROP. ARMY GROUND

ARMY GROUND

ARMY GROUND

41, 7854 4, 6428 27, 8569 37, 1426 66, 3260 32, 4988

14, 2465

25 9798

NORMALIZED VALUES

INFANTRY

MORTERS.

INFANTRY 10,0000 M-60 6.3000 SELF-PROP. 5 6000 4, 2000 MORTERS TOWED ART. 4 2000 M-48 3,9200 ATT. SUBS 2.1479 M-113 0.7000

ALL COMMON	DITIES	
A-10	CAS	2, 7219
COBRA	CAS	1, 8502
F-4	AIR INTERDICTION	2 7811
	CAS	0. 2542
F-16	AIR INTERDICTION	2 7907
	CAS	1 5122
ART. ADRET	CAS	0 1174
RADIO RLAY	AIR INTERDICTION	0.1182
	CAS .	0. 0961
F-111	AIR INTEFDICTION	5 0233
A-6	AIR INTERDICTION	1 5513
F-15	AIR INTERDICTION	2 2318
A-7	AIR INTERDICTION	2. 0 093
F-14	AIR INTERDICTION	1 7729
F-18	AIR INTERDICTION	2, 9549
SH-3	ASW(SEA BASED)	0.2479
SH-2	ASW(SEA BASED)	0. 6197
SH-60B	ASW(SEA BASED)	1 0305
8-3	ASW(SEA BASED)	1.4531
ATT. SUBS	ASW(SEA BASED)	1, 2347
FRIGATES	ASW(SEA BASED)	0. 7408
DSTROYERS	ASW(SEA BASED)	0.4445
M-48	ARMY GROUND	1.1143
M-60	ARMY GROUND	1. 7903
M-1	ARMY GROUND	1, 7908
M-551	ARMY GROUND	0.0113
M-901	ARMY GROUND	1. 4326
M-2/M-3	ARMY GROUND	1 4924
M-113	ARMY GROUND	0.1990
MLRS	ARMY GROUND	0. 5969
TOWEL ART.	ARMY GROUND	1. 0745
SELF-PROP	ARMY GROUND	1 4326
PERSHING	ARMY GROUND	0. ଅନ୍ଧର
GLOMS	ARMY GROUND	0. 9286
INFANTRY	ARMY GROUND	2. 1224
MORTERS	ARMY GROUND	1,0678
ROLES LNOH	ARMY GROUND	0. 0199

VALUES 10, 0000 8, 565°																												
NORMALIZED VAL F-111 F-16	л-4 п-п	-	F-15	ŭ.	A-7	COBRA	 M-60	F-14	A-5	8-3	M-2/M-3	M-901	SELF-PROP.	ATT, SUBS	60	MED.	RTE	SH-60B	0 0 0	FFIGATES	SH-2	PERCHING	Ĭ	DSTROYERS	e-±e	RADIO RIAY	 ART ACRET	u L

CRITICALITY OF SHORTFALL

ALL F	E S
CLOC	3)
ere k	CHIST

7 COMMODITY	GOAL (UNITS)	STOCH FILE (UNITS)	SHORT FALL (%)	TRANS- LATED	IMPORT.	ALITY	FE/SHETEAL_ CRITICALITY
CAPALT	85 4 42 0	4을 등 1호선 /	-4: 7 353 8	401 5 0 0	운. 왕 10-0	335748 10.0	
TIN NYCHEL	200 O	32 2	-83. 9	437.7	9, 9	4345.8	10 0
F JUORSPAR ACID	1400 O 500 O	895.0 0.0	-36 1 -100 0	ଞ୍ଚିଟ, <i>ମ</i> 453 ଟ	9. 4 4. 2	3683. 7 1917. 6	8 5 4 4

COMPOSITE IMPORTANCE (LOC 3)

COPALT

		AMOUNT	% OF	COMPOSITE		
جو جرجر در امر		SUPPLIED	TOTAL	IMPORTANCE	1/6I	2017611
S URCE		1350.	6 4 3	1.72	0.580	3 731
FINLANI		450	2.14	2 05	0.487	1 043
MOROCCO I TSWANNA		250.	1.19	1.76	0.549	0. 678
.इ.एइस AFRICA		150	0.71	2, 21	0.432	0.301
ZAIRE		12500	59, 52	1, 72	0.580	34. 5 43
7 META		3500.	16 67	1.76	0.569	5) 4
F ILIPPINES		503	0.24	0, 82	1, 216	0.209
AUSTRALIA		4 00.	1. 🖘	0, 82	1 216	2 319
NEW CALEDONIA		250	1 19	0,82	1 216	1 447
		1100.	5 24	2 61	0 383	2 007
NAIM Us		1000	4 76	2, 31	0. 432	<u>고</u> 05위
	TOTAL	21000	100.00	,		

TOTAL: 21000, 100,00

COMPOSITE IMPORTANCE (LOC 3)

TIN

SOURCE A STRALIA L S THAILAND INDONESIA L BOLIVIA BRAZIL F C M.LAYSIA		AMOUNT SUPPLIED 100, 16100, 5900, 5800, 100, 10300, 2400, 3000, 23900,	% OF TOTAL 0, 15 23, 82 8, 73 8, 58 0, 15 15, 24 3, 55 4, 44 35, 36	COMPOSITE IMPORTANCE 0. 82 2. 31 0. 82 0. 82 1. 76 0. 90 0. 90 2. 33 0. 82	1/CI 1, 216 0, 432 1, 216 1, 216 0, 569 1, 117 1, 117 0, 429 1, 216	2(1/01) 0, 180 10, 299 10, 611 10, 431 0, 084 17, 014 3, 964 1, 905 42, 983
/EH131H	TOTAL:	67600.	100.00	ν. σΞ		

COMPOSITE IMPORTANCE (LOC 3)

NICHEL

LUPCE INLAND

JUTH AFRICA HILIPPINES JETRALIA GNADA S REECE

ETHERLANDS

UGOSLAVIA

OM REPUB VATAMALA NDONESIA

36

5.5R

DURCE

URCE

NYA WANDA ANZANIA

UTH AFRICA

FALY

UTH AFRICA

MAIN
ST AFRICA
HAILAND
FXICO

AMOUNT 50% ALIED 1000. 5000. 5000. 25000. 88000. 600. 200. 100. 5000. 15000.	% OF TOTAL O 33 -1.64 1.64 8 21 45 28 28.91 O 20 O 07 O 03 O 16 1.64 4.93	OOMFOSITE IMPUATANCE 1. 72 2. 31 0. 82 0. 82 2. 61 2. 31 1. 76 1. 76 1. 76 1. 76 1. 76 1. 76	0.580 0.431 1 216 1.216 0.383 0.432 0.569 0.569 0.569 0.568 1.160 0.727	0.1011 0.151 0.710 1.657 9.585 19.877 12.501 0.112 0.037 0.019 0.054 1.905 3.581
4 000.	1 31	1.38	0. 727	0. 연토됩
5 000.	1 64	0.82	1. 216	1. 연원기

TOTAL: 304400. 100 00

COMPOSITE IMPORTANCE (LOC 3)

FLUORSPAR ACID

	AMOUNT SUPPLIED 190. 70. 45. 100. 25. 15. 350.	% OF TOTAL 22, 36 8, 70 8, 07 12, 42 3, 11 1, 86 43, 48	COMPOSITE IMPORTANCE 2 31 2 31 1 76 1 76 1 76 0 82 2 31	1/01 0, 432 0, 432 0, 569 0, 569 0, 569 1, 216 0, 432	%(1/CI) 9 649 3. 760 4 597 7. 073 1. 768 2. 265 18 801
TOTAL:	805.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

FYRETHRUM

25000. 12.66 1.76 0.569	3, 171 23, 063 7, 207 22, 487
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TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOC 3)

SOURCE	%(1/CI) COMP IMP	FE/SHORTFALL CRITICALITY		NORMALIZED TO 100
FINLAND MOROCCO BOTSWANNA SOUTH AFRICA TAIRE ZAMBIA PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	1 731 1 043 0 678 0 309 34 543 9 490 0 299 2 316 1 447 2 007 2 059	7, 73 7, 73	28, 82 8, 06 5, 24 2, 39 266, 90 73, 82 2, 24 17, 89 11, 18 15, 50 15, 51	410 80 3 01 1 94 0 89 100 00 27 47 0 84 6 70 4 19 5 81 5 90
TIN AUSTRALIA U S THAILAND INDONESIA UK BOLIVIA BRAZIL PAC MALAYSIA	0 180 10, 299 10, 611 10, 431 0 084 17, 014 3 964 1, 905 42, 983	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	0, 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANADA U S GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM REPUB GUATAMALA INDONESIA	0, 191 0 710 1 997 9 985 18, 877 12, 501 0, 112 0, 037 0, 019 0, 094 1, 905 3, 582 0, 955 1, 997	10, 00 10, 00	1 91 7, 10 19, 97 99, 85 188, 77 125 01 1 12 0, 37 0, 19 0, 94 19, 05 35, 82 9, 55 19, 97	0.71 2.66 7.48 37.41 70.73 46.84 0.14 0.07 0.07 0.35 7.14 13.42 3.58 7.46
FLUORSPAR ACID SOUTH AFRICA US ITALY SPAIN EAST AFRICA THAILAND MEXICO	9, 669 3, 760 4, 597 7, 073 1, 768 2, 265 18, 801	8, 48 8, 48 8, 48 8, 48 8, 48 8, 48	81, 96 31, 87 38, 97 59, 95 14, 99 19, 20 159, 37	30 71 11, 94 14, 60 22, 46 5, 62 7, 19 59, 71
PYRETHRUM SOUTH AFRICA AUSTRALIA UK KENYA RWANDA TANZANIA	0. 4 38 0. 923 3. 171 23. 063 7. 207 22. 4 87	4. 41 4. 41 4. 41 4. 41 4. 41	1, 93 4, 07 13, 99 101, 77 31, 80 99, 22	0, 72 1, 53 5, 24 38, 13 11, 92 37, 18

SOURCE IMPORTANCE RANGED BY SOURCE (LOC 3)

· · #	SOURCE	COMMODITY COBALT NICKEL FLUORSPAR ACID NICKEL PYRETHRUM NICKEL FYRETHRUM FLUORSPAR ACID COBALT	VALUE
1	ZAIRE	COBALT	100, 00
. 2	CANADA	NTCKEL	70.75
1 3	MEXICO	FLUGBIEGE ACTE	50 71
	N. C	NECOMOTAR ACID	Q2.71
4	U S	NICHEL	46.84
5	KENYA	FYRETHRUM	38,13
6	AUSTRALIA	NICKEL	37, 41
7	TANZANIA	EYRETHRUM	37 18
	SOUTH AFRICA	FULL DESCRIPTION	20.71
9	ZOWETA	COUNDERN HOLD	27, 47
7	ZHMETH	COBALT	
Q	SEAIN	FLUORSFAR ACID	22, 46
ı 1	ITALY	FLUORSPAR ACID	14, 60
12	DOM REPUB	NICHEL	13, 42
3	II S	FLUORSPAR ACID	
. ,	THE CONTROL	EVERTURES HE TE	
· _4	RWHIVEH	FYRETHRUM	11, 92
15	FINLAND	COBALT	10.80
<i>6</i> .	INDONESIA	NICHEL	7. 4 -
7	PHILIPPINES	NICHEL	7.43
18	THATE ANTI	FLUORSPAR ACID	7. 19
19		FIGURE STATE OF THE AMERICAN	
	UEDR	NICHEL	7. 14
\mathbf{L}_{1}^{0}	AUETRALIA	COBALT	6 , 70
7.1	US	COBALT	5. 96
22	SOUTH AFRICA ZAMBIA SFAIN ITALY DOM. REPUB U S RWANDA FINLAND INDONESIA FHILIPFINES THAILAND USSR AUSTRALIA U S CANADA EAST AFRICA	CORALT	5, 81
. 3:	EAST AFRICA	FLUORSPAR ACID	5. 62
4	UE:		5. 24 5. 24
_	ur.	FIRE (MRUM)	-
25	NEW CALEDONIA	COBALT	4. 19
1 6	CHATAMALA	NICHEL COBALT	3, 58
• •	GUATAMALA	NIUNEL COROLE	3, 02
	NOROCCO	CUEMET	2, 66
28 29	SOUTH AFRICA	NICKEL	
	EDTSWANNA	COBALT	1. 96
	AUSTRALIA	FYRETHRUM	1, 53
<u>_1</u>	SOUTH AFRICA	COBALT	0.89
32	FHILIPPINES	COBALT	0 84
√ 3	SOUTH AFRICA	FYRETHRUM	0. 72
4	FINLAND GREECE YUGOSLAVIA NETHERLANDS FRG MALAYSIA FRC	NICKEL	0.71
35	GREECE	NICKEL	0.71
9 <u>6</u>	VICCOLALITA	NICKEL	
_	YUUUSLAVIA	NICKEL	0, 35
・フ	NETHERLANDS	NICKEL	O. 14
ਡ∂	FRG	NICKEL	0. 07
39	MALAYSIA	TIN	0. 00
- 5	PRC	TIN	0. 00
1	PPATI	1 114 T T N I	
	BRAZIL	TIN	0. 00
42	BOLIVIA	TIN	0. 00
1,3	UK	TIN	0. 00
4	INDONESIA	TIN	0. 00
45	THAILAND	TIN	0. 00
Δ4.	US		
		TIN	0. 00
7	AUSTRALIA	TIN	0 00

SCENARIO 10

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                   Level of Conflict 3 Media 1
                  2
Region
           1
                                 4
          10.0
                         7.0
Weight
                 10.0
                                 5.0
                                        7. O
                                                2.0
                                                       2.0
                                                              5.0
                                                                      2 0
I/COEF 0.1786 0.1786 0.1250 0.0893 0.1250 0.0957 0.0957 0.0999 0.0957 0.3651
                   I by elion Countliet B Madie
Recion
                                                       7
                                                              8
Region
          11
Weight
          10.0
                 10.0
                         9.0
                                 4. ()
                                        7. 0
                                                5 0
                                                       1 0
                                                              8.0
                                                                      7. 0
Weight
           9.0
I/COEF 0,1333 0.1903 0.1200 0.6533 0.0933 0.0467 0.0133 0.1067 0.613.0 0.15
I/COEF 0. 1200
                   Level of Conflict 3 Media 3
Region
           1
                                 4
                                        Ξ,
Weight
          10.0
                 10.0
                       10.0
                                 8. O
                                        6 O
                                                4. O
I/COEF 0.1786 0 1786 0 1785 0 1429 0.1071 0 0714 0 1414
                   Level of Conflict 3 Media 4
Region
           1
                          2. O
Weight
          10.0
                  4 0
                                 1. 0
I/COEF 0 5882 0,2053 0,1174 0,0583
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF CONFLICTS
              or the Importance of Controlling EACH region within its orn Neors
Media 1
Region
                                         F.,
 I/CUEF 0 0118 0 0115 0 0160 0 0114 0 0160 0 0045 0 0046 0 0114 0 0045 0 0137
Media
Region
                   \mathcal{I}
                          7
            1
                                  4
                                         Ε,
                                                 6
                                                        7
Media 11
Recion
I/COEF 0.0171 0.0171 0.0154 0.0068 0.0119 0.0085 0.0017 0.0136 0.0119 0.0085
I/COEF 0.0154
Media 3
Region
1/COEF 0 0228 0 0228 0 0220 0 0183 0 0187 0 0091 0 0193
Media 4
Region
·I/00EF 0 0752 0.0301 0 0150 0.0075
Importance of controlling ANY Region
within its Media as compared to the Importance
of controlling ANY Region of any other Media
M≂dia
Region
                           73
                                         5
                                                               \Xi
                                                                             10
I/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0020 0.0040
Media 2
Region
                   2
                           3
                                         5
                                                 6
                                                        7
                                                                8
                                                                             10
Media 11
Region
I/COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
I/00EF 0.0033
Media
Region
1/00EF 0.0060 0.0060 0.0060 0.0048 0.0036 0.0024 0.0048
Media 4
Region
                   2
                           3
I/COEF 0.0065 0.0026 0.0013 0.0007
```

FOR IS ELEMENT IMPORTABLE (LOC S)

		V E 474		
	ELEMENT	FORTE ELEMENT C	ALCULATEI	NORMAL TOP TO
RAW IND	NorthBER	机曲线图	VALUE	T VALI-
i	17	CARAIER BATTLE GROWN	0.141.	10.00
2	1	AIR INTERNICTION	0 117	8 2 1
3	3	ARMY GROUND	0.104	7 PF.
4	1.4	ATTACH SUBS	0.072	
5	1 🤊	SURFACE COMBATA ITE	O 060	
6	12	THEATER NUCLEAR WEARON	0.054	3 8:1
7	8	RAPID DEPLOY	0.052	3.70~
8	A.	CAS	$Q_{i} \in \mathcal{A}[G]$	3.112
9	14	ASW(LAND PASED)	Q 043	
10	\$ 1	AIR SEPERICALTY/LAGE BAS	E10 0 141	4 F.4
1.1	15	ASW(SEA BASED)	0.033	
12	23	AIR SUPERIORITY/SHIE LAS	Ero Cour	<u> </u>
1 P	21	AIR DEFENSE (SHIP BASED)	$O \cdot O \otimes \mathbb{R}$	
14	10	STRATEGIC BOMBER	0.025	1
15	25	SPOE BASED WEAPON(A)R ON	TRL)0 020	1 4.10
16	20	ASAT(SPACE BASED)	0.013	က္ ကုိ≱
17	j 8	MINE WARFARE	6.693	O(30.1)
18	2	AMPHIBIOUS ASSAULT	0.011	0.717
19	1 🖰	SPECIAL OPERATIONS	4-6-10	0.725
20	248	ASAT(LAND BASED)	$Q = Q C_{1}^{-1/2}$	Ç Şiri
21	20	AIR DEFENSE(LAND BASED)	0.004	0.275
22	÷	SPOE-BASED WEAPON(LND CN	TRLIG OBE	0.212
23	P0	SPOE BABEI WHAPONISEA CH	TRIDO ODD	O 11E
24	27	ADMISPACE DAGED!	6-0-12	$Q_{i} = Q_{i} \cap i$
25	26	ABM(LAND BASED)	Q = QQQ	O. O.F.
26	24	INTERCEPTOR AIRCRAFT	Ó ÓCO	$\phi \cdot \phi \rightarrow$
27	1.1	SUPM	$\Phi \in G(0)$	Q = Q Q Q
28	7	IODM	Q QQQ	
29	<u> </u>	CIVIL DEFENSE	0.000	$Q = Q(Q) \otimes \mathbb{R}$
30	7.	CEW	0.000	Ŏ ŌĘij

COMMODITY IMPORTANCE (LOC 3)

COBALT

AIR INTERDICTION	5.71
ARMY GROUND	4, 52
CAS	1, 75
ICEM	0.00
STRATEGIC BOMBER	1. 79
SLBM	0.00
ASW(SEA BASED)	1 27
CARRIER BATTLE GROUP	10.00
SURFACE COMEATANTS	4, 2%
AIR SUPERIOFITY(LAND BASED)	2, 91
AIR SHPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCRAFT	0.00
ASAT(LAND BASED)	0 5t

т	Ŧ	1.1

TIN		
ARMY GROUND CAS STRATEGIC BOMBER ASW(LAND BASED) ASW(SEA BASED) ATTACK SUBS CARRIER BATTLE GROUP MINET WARHARE SURFACE COMBATANTS AIR SUPERIORITY(LAND BASED) AIR SUPERIORITY(SHIP BASED)	의 등의 4. 25 호: 위1	
·	41, 18	
NICKEL .		
CAS STRATEGIC BOMPER ASW(SEA BASED) ATTACK SUBS CARRIER BATTLE GROUP MINE WARFARE SURFACE COMBATANTS AIR SUBSECTIONITY CARRIES	5 A0 4.92 1.72 1.79 1.71 5.13 10.00 0.89 4.20 PYRETHRUM 2.91 2.28 ARMY GROUND - 0.00 CIVIL DEFENSE ASW(SEA BASED) 41.21 CARRIER BATTLE GROUP SURFACE COMBATANTS	2. 68 0. 00 0. 14 10. 00 4. 2%
FLUORSPAR ACID		CV. St.
AIR SUPERIORITY(LAND BASED)	7. 13 COMMODITY NORMALIZED 0. 76 NICKEL 2. 05 TIN 0. 00 FLUORSPAR ACID 1. 79 COBALT 0. 00 PYRETHRUM 3. 08 1. 43 10. 00 4. 25 2. 91 2. 28 0. 00 0. 00 0. 00	IMPORTANCE 10, 00 (4 9, 99 (4 9, 60 () 8, 49 () 4, 14 (

39, 57

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COPALT
                                                        7.336
            CAS
A-10
                                                      48, 4891
COURA
            CAS
                                                     103, 5050
F-4
            AIF
                INTERDICTION
                                                         2794
            CAS
                                                      71, 8785
F-16
            AIF
                 INTERDICTION
                                                      40, 4075
            CAS
                                                       3. 6367
ART. ACRET
            CAS
                                                         2345
                                                       3
RADIO RLAY AIR
                INTERDICTION
                                                         7275
                                                       2.
            CAS
                                                     129, 3813
                INTERDICTION
F-111
            AIR
                                                      98, 8144
4-6
            AIR
                INTERDICTION
                                                      57, 500a
F-15
            AIR
                 INTERDITTION
A-7
            AIR INTERDICTION
                                                      51, 7525
F-14
            AIR INTERMICTION
                                                      43.
                                                        1271
            AIR INTERDICTION
                                                      71, 8785
F-18
                                                       6 0775
94 - 3
            ASW(SEA BASED)
                                                      15, 1937
SH-2
            ASW(SEA BASEI)
            ASW(SEA BASED)
                                                      23, 6346
SH-60B
9-3
            ASW(SEA BASED)
                                                      34, 7284
                                                      24, 1169
            ASW(SEA BASED)
ATT. SUBS
FRIGATES
                                                      14 4701
            ASW(SEA BASED)
                                                       8, 6821
DOTROYERS
            ASW(SEA BASED)
                                                      37, 9669
M-48
            ARMY GROUND
                                                      61. 01CD
M-60
            ARMY GROUND
                                                      67, 7980
M--1
            ARMY GROUND
                                                       0.2250
M-551
            ARMY GROUND
                                                      54, 2384
14-901
            ARMY GROUND
                                                      47, 4586
M-2/M-3
            ARMY GROUND
                                                       5, 2732
M-113
            ARMY GROUND
                                                      20, 3394
MLRS
            ARMY GROUND
                                                      27, 1192
36, 1589
             ARMY GROUND
TOWED ART.
            ARMY GROUND
SELF-PROP.
                                                      18, 0795
PERSHING
             ARMY GROUND
                                                      30, 1924
GLOMS
             ARMY GROUND
                                                       7, 5331
INFANTRY
             ARMY GROUND
                                                      36, 9122
MORTERS
             ARMY GROUND
                                                       1, 5820
ROLES LNCH ARMY GROUND
```

44.0 5721 3974 4076 6842 3290 0961 8**64**0 8267 1743 1184 6710 4697 8500 79**4**8 8888 0000 9345 0000 7478 6681 5622 6216 2402 7162 4444 1921 ಯಯುಬ್**ಟಕಕಕಕ**ಅಪಪಪಟ್ಟಿಗಳು ಗಳಗಳಗಳಗಳಲ್ಲಿ ನಿನ್ನಾನ್ನ NORMALIZED VALUES PITE SOLES LNCH M-151 RADIO RLAY DSTROYERS SUBS SELF-PROP rowed ART FRIGATES NEDNIKY PERSHING MORTERS M-2/M-3 ATT. SU SH-60R 4-113 3LCMS COBRA ALP. M-901 F-14 M-40 A-10 M-60 F-15 F-18 F-16

TIN		
A-10	CAS	72, 7336
COBSA	CAS	64.6521
F-4	AIR INTERDICTION	103, 50%0
	04:	7, 2754
F-16	AIR INTERDICTION	71, 8785
	CAS	40. 4075
ART. ACRET	043	3 6367
RADIO RLAY	AIR INTERFOCTION	3, 2345
	CAS	2. 7275
F-111	AIR INTERPICTION .	129, 3813
A-6	AIR INTERDICTION	43 6662
F-15.	AIR INTERDICTION	57, 5628
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERPICTION	48, 5180
F-18	AIR INTERDICTION	80, 8633
SH-3	ASW(SEA BASET)	5 20°3
SH-2	ASWISEA BASEI()	13, 0231
SH-60B	ASW(SEA BASED)	20, 2582
8-3	ABN(SEA BASED)	34, 7284
ATT. SUBS	ASW(SEA BASED)	14.4701
FRIGATES	ASW(SEA BASED)	14. 4701
DETROYERS	ASM(SEA BASED)	8, 6821
M-48	ARMY GROUND	4, 2185
M-60	ARMY GROUND	6. 7 798
M-1	ARMY GROUND	37, 6655
M-551	ARMY GROUND	0.0703
M-901	ARMY GRIUNIS	6. 7 798
M-2/M-3	ARMY GROUND	6, 7798
M-113	ARMY GROUND	0. 7 533
MLRS	ARITY GROUND	10, 1697
TOWED ART.	ARITY GROUND	4, 5199
SELF-PROP.	ARMY GROUND	6, 0265
PERSHING	ARMY GROUNI:	15, 8195
GLOMS	ARMY GROUND	26, 3659
INFANTRY	ARMY GROUND	60, 2649
MORTERS	ARMY GROUND	5, 2732
FIGLES LNCH	ARMY GROUND	0, 2260

5240 5240 5240 4658 4608 0. 4076 0. 4026 0. 3493 1. 5658 1. 2227 1. 1184 1. 1184 1. 0066 0. 7860 0. 6710 1926 0 00000 68**4**2 0378 0, 2811 3750 9112 8. 5622 6. 2500 7500 6216 9970 4444 0000 BOLES LMCH M-60 SELF-PROP. RADIO RLAY ART, ACRET SH-3 TOWED ART. ATT, SUBS DSTROYERS SH-60B PERSHING FRIGATES M-2/M-3 M-901 MORTERS INFANTRY S-3 GLCMS A-10 COERA M-40 MLRS SH-2 F-111 ST-H F-14 F-16 F-4 F-18 A-7 A-6 M-1

NORMALIZED VALUES

NICKEL		
A-10	CAS	72. 7 336
COBRA	CAS	48 4991
F-4	AIR INTERDICTION	77 62:1
	CAS	5.4550
F-16	AIR INTERDICTION	71 8735
	CAS	40 4075
ART. ACRET	CAS	2, 4245
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2. 7275
F-111	AIR INTERDICTION	129 3818
A-6	AIR INTERDICTION	38, 8144
F-15	AIR INTERDICTION	57 5023
≙-7	AIR INTERDICTION	51 7525
F-14	AIR INTERDICTION	45, 5150
F-18	AIR INTERDICTION	8 0. 8633
SH-3	ABW(SEA BASED)	€ 541:7
SH-2	ASW(SEA BASED)	17, 3642
SH-60D	ASW(SEA BASED)	27 010 4
S-3	ASW(SEA BASEI)	34, 7284
ATT. SUBS	ABW(SEA BASED)	43 4104
	ASW(SEA BASED)	26, 0463
DSTROYERS	ABW(SEA BASED)	15 6278
M-48	ARMY GROUNI:	42, 1854
M-60	ARMY GROUND	67, 7980
M-1	ARMY GROUND	75, 3311
M-551	ARMY GROUND	0. 7533
M-901	ARMY GROUND	47, 4586
M-2/M-3	ARMY GROUND	54 2384
M-113	ARMY GROUND	5, 2732
MLRS	ARMY GROUND	20, 3394
TOWELL ART.	ARMY GROUND	36, 1589
SELF-PROP.	ARMY GROUND	48 2119
PERSHING	ARMY GROUNI)	18, 0795
GLCMS	ARMY GROUND	22, 5993
INFANTRY	ARMY GROUND	37.6655
MURTERS	ARMY GROUND	15.8191
ROLES LNOH	ARMY GROUND	0. 2260

	5, 2402 4, 4444 4, 1921 4, 0000 3, 7500 3, 7263 3, 6631 3, 2600 3, 2600 3, 2600		
NORMALIZED VALUES F-111 F-16 F-4 F-18 M-1 A-10	M-60 F-15 M-2/M-3 A-7 F-14 COFRA SELF-PROP. M-901 ATT. SUBS A-48	INFANTRY TOWED ART. S-3 SH-60B FRIGATES GLCMS MLRS FERSHING SH-2 MORTERS DSTROYERS	SH-3 RADJO RLAY M-113 ART, ACRET M-504 RCLES LNCH

	•	
FLUORSPAR		
A-10	CAS	90. 9170
COBRA	CAS CONTRACTOR CONTRAC	48 49 1
F-4	AIR INTERDICTION	100 9813
	CAS	9 0917
F-16	AIR INTERDICTION	ଟ ମ ଅଧ୍ୟ
	CAS	50 5094
ART. ACRET		3. 6367
RADIO RLAY	'AIR INTERDICTION	3, 2345
	CAS	2. 7275
F-111	AIR INTERDICTION	161. 7266
A-6	AIR INTERDICTION	48, 5180
F-15	AIR INTERDICTION	71.8783
A-7	AIR INTERDICTION	64. 6906
F-14	AIR INTERDICTION	53. 908 d
F-18	AIR INTERDICTION	89. 84 81
5H-3	ASW(SEA BASEI)	6.9457
SH-2	ASW(SEA BASED)	17. 3642
SH-60B	ASW(SEA BASED)	33.7637
9-3	'ASW(SEA BASED)	43, 4104
ATT. SUBS		28, 9403
FRIGATES		20 2582
DSTROYERS	ASW(SEA BASED)	12. 1549
M-48	ARMY GROUND	12.1549 12.6556
M-60	ARMY GROUND	
M-1	ARMY GROUND	20, 3394 22, 5993
M-55i	ARMY GROUND	
M-901	ARMY GROUND	0. 2260 54 . 2 384
M-2/M-3	ARMY GROUND	54, 2384 54, 2384
M-113	ARMY GROUND	6. 0265
MLRS	ARMY GROUND	6.0265 16.9495
TOWED ART.	ARMY GROUND	16 9490 22, 5 993
SELF-PROP.	ARMY GROUND	
PERSHING	ARMY GROUNI	30, 1324
GLCMB	ARMY GROUND	15, 8195
INFANTRY	ARMY GROUND	26. 3659
MORTERS:	ARMY GROUND	60. 2 649
	ARMY GROUND	26. 3659
	Control of the Contro	0. 2260

```
8, 5622
5, 6216
5, 5556
4, 4444
                                                              3, 3537
3, 3537
3, 3333
3, 0000
2, 9982
2, 6842
2, 0877
                                                                                                                                     1. 6303
1. 3974
                                                                                                                                                   1. 3974
1. 2576
                                                                                                               1.8632
1.7895
1.6303
                                                                                                                                                                   1, 2526
1, 0737
1, 0480
0, 9782
0, 7827
0, 7516
0, 4795
0, 3686
                                                0000
                                                       7263
NORMALIZED VALUES
F-111
                                                                                                                                                                                                                                      HOMI CATOM
                                                                                                                                                                                                                        RADIO PLAY
                                                                                                                                                                         SH-2
MLRS
PERSHING
M-48
DSTROYERS
SH-3
                                                                                                        SH-60B
SELF-PROP.
ATT. SUBS
MORTERS
                                                                                                                                    GLCMS
TOWED ART.
                                                       INFANTRY
M-2/M-3
M-901
F-14
                                                                                                                                                                  FRIGATES
                                                                                  A-6
COBRA
S-3
                                                                                                                                                                                                                  ¥-113
                                                                                                                                                           M-60
                          A-10
F-18
F-15
A-7
            F-16
F-4
                                                                                                                                                   <u>Ι-Γ</u>
```

PYRETHRUM

ATT SUPS	ASW(SEA BACED)		14 4701
M-48	ARMY GROUND		29 5298
M-60	ARMY GROUND	•	47, 45:56
M-113	ARMY GROUND		5 2732
TOWED AFT.	ARMY GROUND		51 6390
SELF-PROP.	ARMY GROUND		42 1854
INFANTRY	ARMY GROUND		75 3311
MORTERS	ARMY GROUND		35. 9122

NORMALIZED VALUES

INFANTRY	10, 0000
M-60	<i>6.</i> 3000
SELF-PROP.	5, 6000
MORTERS	4, 9000
TOWED ART.	4. 2000
M-48	3, 9200
ATT. SUPS	1, 9202
M-113	0. 7000

ALL COMMOI	DITIES	
A-10	CAS	3 0912
COBRA	CAS	2 1012
F-4	AIF INTERDICTION	4 1402
	CAB	0.2909
F-16	AIR INTERDICTION	3, 0548
	CAS	1 7173
ART. ACRET	646	0 1333
RADIO RLAY	AIR INTERDICTION	0. 1294
	CAS	0.1091
F-111	AIR INTERDICTION	5. 4987
A-6	AIR INTERDICTION	1.6981
F-15	AIR INTERDICTION	2 4439
A-7	AIR INTERDICTION	2. 1995
F-14	AIR INTERDICTION	1. 9407
F-18	AIR INTERDICTION	3, 2345
SH-3	ABW(SEA BASED)	0.2518
SH-2	ASW(SEA BASSI)	G. 62 90
SH-60B	ASW(SEA BASED)	1. 0447
8-3	ASW(SEA BASEI)	1.4760
	ASW(SEA BASED)	1.2541
FRIGATES.	ASW(SEA PASED)	0. 7524
DSTROYERS	ASW(SEA BASED)	0.4515
M-48	ARMY GROUND	1, 2656
M-60	ARMY GEOUND	2, 0339
M-1	ARMY GROUND	2. 033ମ
M-051	ARMY GROUND	O. 0128
M-901	ARMY GROUND	1, 6272
M-2/M-3	ARMY GROUND	1. 6272
M-113	ARMY GROUNI:	0. 2250
MLRS	AFMY GROUND	0. 6780
TOWED ART.	ARMY GROUND	1. 2204
SELF-PROP.	ARMY GROUND	1. 6272
PERSHING	ARMY GROUND	0. 6780
GLOMS	ARMY GROUND	1. 0546
INFANTRY	ARMY GROUND	2, 4106
MORTERS	ARMY GROUND	1 2128
ROLES LNOH	ARMY GROUND	0. 0226

3684 2330 2330 1447 3, 6989 3, 2894 2, 9582 2, 9592 2, 9592 2, 9592 2057 9180 9085 6842 3016 2807 2194 8, 6787 8, 0585 8824 6216 4, 3839 4, 0000 8213 0128 0 6369 0,4579 4. 4404 NORMALIZED VALUES F-111 SH-3 RADTO RLAY M-48 ATT, SUBS ' TOWED ART, MORTERS GLCMS AFT N'RFT HON'I CHICH MLRS SH-2 DSTROYERS SELF-PROP. M-2/M-3 M-901 S-3 FRIGATES PERSHING A-10 F-13 INFANTRY SH-60B M-113 COBRA F-16 F-18 M-60 A-7

CRITICALITY OF SHORTFALL

ALL FF 9

_		STUCK	SHORT		FE/		117F 12	7 - 1
L	GOAL	FILE	FALL	TF:AME -	CHODITY	CRITI,-	F (* 21)	
COMMODITY	(UP(ITS)	(100775)	(f.)	LATEL	111F JF(T)	ALFIY	• •	· i
COLALT	85 4	43 3	-4o 7	402 5		3418 1		
TIN	42. O	100 B	353.8	0.0	10. O	Ö Ö		
NICKEL	200 o	32 2	-83 9	437.7	10.0	4377 1	1.78 (3)	
FLUORSPAR ACID	1400 O	895 0	-36.1	ကျွားမျှားက က	e, 6	3744 3		
FYRETHRUM.	500 0	Q O ·	-100 -0	453 B	4 1	1853 =	ε ÷	

COMPOSITE IMPOSITANCE (LOC 3)

् वस्था र

SOURCE FINLAND	AMOUNT SUPPLIED 1350.	% OF TOTAL 7.71	COMPOSITE IMPORTANCE 1.92	1701 0 520	%() ()) 4 (11
MOROCCO	4 50.	2, 57	1, 50	0.647	1 71
BOTSWANNA	250.	1 43	0.71	1, 404	- 1'41 1E'
SOUTH AFRICA	150.	Q. 86	1. 19	0.841	0.721
ZAIRE	12500.	71, 43	0.71	1.404	100 250
PHILIPPINES	5 0.	0 29	0. 92	1, 007	0.51
AUSTRALIA	400.	2, 29	0. 92	1, 087	2.483
NEW CALEDONIA	250.	1.43	0. 92	1. 027	
CANADA	1100	6, 29	2, 89	0.346	Z 175
ប្ទ	1000.	Q 71	2 56	0.391	<u> </u>

TOTAL: 17500 100 00

COMPOSITE IMPORTANCE (LOC 3)

TIN

SOURCE AUSTRALIA J S THAILAND INDONESIA JK BOLIVIA BRAZIL PRO MALAYSIA		AMOUNT SUPPLIED 100. 16100. 5900. 5800. 100. 10300. 2400. 3000.	% OF TOTAL 0, 15 23, 82 8, 73 8, 58 0, 15 15, 24 3, 55 4, 44 35, 36	COMPOSITE IMPORTANCE 0. 92 2. 56 0. 92 0. 92 1. 96 0. 98 0. 86 2. 47	1/01 1, 087 0, 391 1, 087 1, 087 0, 510 1, 020 1, 162 0, 405	%(1/01) 0.141 9.319 9.483 9.312 0.075 15.543 4.125 1.794
MALAYSIA		23900.	35. 36 	0. 92	1. 087	38, 414
•	TOTAL:	676 00.	100, 00			

COMPOSITE IMPORTANCE (LCC 3)

NICHE.

OURCE

FRO

90F.

SOUTH AFRICA
#HILIPPINES
HUSTRALIA
UANADA
U.S
REECE
LETHERLANSS

UGCSLAVIA

DOM REPUB GUATAMALA , NDUNESIA

Amenin	√7 % OF	Communication to	-	
	· ·	COM-OSITE		
SUMBLI		INFORTANCE	1/CI	'. : ll,
1 COC) (0, 33	1. 92	0 . 520	0.171
5000	1.64	1 19	O. 841	1 0:1
5ajr∆q	1.65	0.92	1 087	1 7 E
29001	. 821	0.92	1. 087	원 주고취
150000	1 4의 교원	2, 89	0. 346	17 054
tale court	N 28 91	2 55	0 391	11 311
600	0, 20	1. 54	0.510	0.101
200	0.07	$1 = \mathfrak{D}(\Phi)$	0.010	
100	0.03	1. 96	0.510	0.017
5000	0.16	1. 7/4	0.010	7 4 7 7
<u>Solojo</u>	1. 64	O. 94	1.061	1. 741
15000	እ	1, 53	0. 656	₹ 1±3
4 000	1.31	1, 53	0.656	0.831
5000	1.64	0, 92	1,087	1 785

TOTAL: 304400, 100.00

COMPOSITE IMPORTANCE (LOC 3)

EL MORSHAR ACID

• • • • • • • • • • • • • • • • • • • •					
•*	AMOUNT	% OF	COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	% (1/6.1)
<u>S</u> UUTH AFRICA	180.	22, 36	1, 19	0.841	18 303
9	70.	8. 70	2, 56	0.391	3 402
TALY	6 %.	8. 07	1. 96	G. 510	4.120
SPAIN	100.	12. 42	1. 96	0.510	6 338
TAST AFRICA	25.	3.11	0. 71	1. 404	4 359
HAILAND	15.	1. 8c	0. 92	1.087	2, 615
MEXICO	350.	43, 48	2, 56	0. 391	17. 011

TOTAL: 805. 100.00

COMPOSITE IMPORTANCE (LOC 3)

FYRETHRUM

SOURCE DUTH AFRICA LUSTRALIA UK LENYA LUANDA TANZANIA	AMOUNT SUPPLIED 2000. 1500. 11000. 80000. 25000. 78000.	% OF TOTAL 1, 01 0, 76 5, 57 40, 51 12, 66 39, 49	COMPOSITE IMPORTANCE 1, 19 0, 92 1, 96 0, 71 0, 71 0, 71	1/CI 0. 841 1. 087 0. 510 1. 404 1. 404	%(1/01) 0.852 0.815 2.842 56.855 17.767 50.483
			<u> </u>	4 . 404	• • • • • • • • • • • • • • • • • • • •

TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOG 3)

SUURUS	%(1/C1) CO*:4 IME	PETSHURIFALL CRITICALITY		(6887) 75 195
FINLAND MORDOCO BOTSWANNA SOUTH ARRICA ZAIRE PHILIPPINES AUSTRALIA NEW CALEDONIA CANADA U S	4 012 1 715 2 005 0 721 7 239 0 310 2 483 1 552 2 175 2 236	7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81 7, 81	31, 33 - 13, 40 15, 66 5, 63 782, 91 2, 42 19, 39 12, 17 16, 99 17, 46	4, 00 1, 71 2, 00 0, 72 100 0 0, 31 2, 48 1, 77 2, 17 2, 27
TIN AUSTRALIA U S THAILAND INDONESIA UE BOLIVTA BRAZIL PRO MALAYBIA	0 141 9, 319 9, 433 9, 822 0 075 15 048 4, 125 1 797 30 414	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0 00 0, 00 0, 00 0, 00 0, 00 0, 00 0 00 0 00	0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 0
FINLAND SOUTH AFRICA PHILIPPINES AUSTRALIA CANHIA US GREECE NETHERLANDS FRG YUGOSLAVIA USSR DOM. REPUB. GUATAMALA INDONESIA	0 171 1 381 1 785 8 924 17, 054 11, 311 0, 034 0, 017 0, 084 1, 742 3, 230 0, 861 1, 785	10, 00 10, 00	1, 71 13,81 17,85 89,24 170,54 113,11 1,01 0,34 0,17 0,84 17,42 82,30 8,61 17,85	0. 22 1. 75 2. 28 11 40 21. 78 14. 45 0. 13 0. 04 0. 02 0. 11 2. 23 4. 13 1. 10 2. 28
FLUORSPAR ACID SOUTH AFRICA U S ITALY SPAIN EAST AFRICA THAILAND MEXICO	18, 803 3, 402 4, 120 6, 338 4, 359 2, 025 17, 011	8, 55 8, 55 8, 55 8, 55 8, 55 8, 55	160, 85 29, 10 35, 24 54, 22 37, 29 17, 32 145, 52	2. 21
FYRETHRUM SOUTH AFRICA SOUTH AFRICA SOUTH AFRICA WESTRALIA SOUK KENYA EWANDA TANZANIA	0, 852 0, 825 2, 842 54 855 17, 747 55 433	4, 30 4, 30 4, 30 4, 30 4, 30 4, 30	3, 66 3, 55 12, 21 244, 29 76, 34 238, 18	0, 47 0, 45 1, 56 31, 20 9, 75 30, 42

SQURCE IMPORTANCE RANGED BY SOURCE (LOC 3)

	area recent	COMMODITY COBALT EYRETHEOM EYRETHEOM NICHEL ELHORSPAR ACID	VALUE
	SOURCE	CORA! T	100 00
1 ₂	ZAIRE	ENTER TABLE	31 20 -
- 2	FENYA .	TOTAL CONTRACTOR	30.42
	TANZANIA	FIFE (Fire)	21. 78
. 4	CANADA	FLUORSPAR ACID	20, 54
~5	SOUTH AFRICA	FLUURDEHM AUIU	20.54 18.59
6	SOUTH AFRICA MEXICO U.S AUSTRALIA RWANDA	FLUORBPAR AUTD NICHEL	14.45
_7	US .	NICHEL	
=8	AUSTRALIA	N2 04/44	11, 40
9	RWANDA	PYRETHRUM	9. 75
10	SPAIN	EMPRESE HE HEAT	<u> 6. E.</u>
	EAST AFRICA	FLUORSPAR ACID	4. 76
<u>-</u>	ITALY	FLUORSPAR ALID	4. 5
13	DOM. REPUB.	NICKEL	4.13
1.4	FINLAND	CORALT	4 , 00
5	មុខ •	FLUORSFAS, ACID	3 72
16	AUSTRALIA	COBALT	2.49
17	INDONESIA	NICKEL	2, 29
8:	PHILIPPINES	COBALT NICKEL NICKEL	2, 28
, s	11 8	COBALT	2, 23
7.5	HERE	NIUKEL	2, 23
- 7	THATI ANTI	FLUORSPAT ACID	2 11
7	ITALY BOM. REPUB. FINLAND U S AUSTRALIA INDONESIA PHILIPPINES U S USSP THAILAND CANADA LOTSWANNA SOUTH AFRICA MOROCCO UK	COBALT	2.17
-, -	TATCHANIA	COBALY	2, 00
20	SOUTH AFRICA	NICKEL	1. 76
ME	MODERNO DE LA COMP	COPALT	1.71
2 5	UK	PYRETHRUM	1. 54
27	NEW CALEDONIA	COBALT	1, 55
8	GUATAMALA	NICKEL	1 10
	SOUTH AFRICA	COBALT	0.72
		PYRETHRUM	0. 47
30		PYRETHRUM	0. 45
1 2	AUSTRALIA	CORALT	0. 31
	PHILIPPINES	NICKEL	0. 22
⊴3	FINLAND	NICKEL	0.13
34	GREECE		0. 11
		NICKEL	0. 04
36	NETHERLANDS	NICKEL	0.02
37	FRG	NICKEL	0.00
:3	MALAYSIA	TIN	0.00
	PRO	TIN	0, 00 0, 00
40	BRAZIL	TIN	
41	FOLIVIA	TIN	0, 00
2	UK:	TIN	0. 00
⊸ 3	INDONESIA	TIN	0.00
44	THAILAND	TIN	0.00
5	บร	TIN	0. 00
٤	AUSTRALIA	TIN	0. 00

SCENARIO 11

```
WEIGHTS on REGION by LEVEL of CONFLICT and MEDIA
                   Level of Conflict 3 Media 1
                        7.6
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                                               2.0
                                                       2.00
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F \in \mathbb{F}_{+} \subset \mathbb{F}_{1}
Region
         1.1
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Weight
IXCOEF 0 1939 0 1937 0 1200 0 0939 0 0939 0 0.47 0 0199 0 1067 0 0915 0 5
I/COEF 0.1200
                   Level of Conflict 3 Media 3
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Western
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Weight
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170566 0 5832 0 2353 0 1174 0 0580
              INFLUENCE COEFFICIENTS OVER ALL LEVEL OF COMPLICES.
              or the Importance of Controlling FACH recies within its one Merci
Media 1
Reside
1/00EF 0 0228 0 0228 0 0160 0 0114 0 0160 0 0044 0 0047 0 0114 0 0141
Media 2
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Fleguon.
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                                                 4
Necta 11
Francisco
1/00EF 0.0171 0.0171 0.0154 0.0068 0.0119 0.0085 0.0017 0.0136 0.0119 0.0085
IMPORE O 0154
Media 3
Recion
1/CUFF 0.0228 0 0228 0.0228 0.0188 0 0187 0.0001 0 0188
Media 4
Region
I/ČOEF 0 0752 0.0301 0.0150 0.0075
Importance of controlling ANY Region
within its Media as compared to the Importance
of controlling ANY Region of any other Media
Media 1
                                                                Ω:
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1/COEF 0.0099 0.0099 0.0070 0.0050 0.0070 0.0020 0.0020 0.0050 0.0020 0.0030
Media 2
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            1
                   2
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                                  4
Region
Media 11
Region
I/COEF 0.0037 0.0037 0.0033 0.0015 0.0026 0.0019 0.0004 0.0030 0.0026 0.0019
I/00EF 0.0033
Media 3
Region
1700EF 0 0040 0 0040 0 0040 0 0048 0 0034 0 0024 0 0048
Media 4
Region
 I/COEF 0 0045 0,0024 0,0013 0 0007
```

FORCE ELEMENT IMPORTANCE (LOC 3)

	ELEMENT	FORCE ELEMENT	CALCULATED	NORMALIZEI
RANKING	NUMBER	NAME	VALUE	VALITZ
i	17	CARRIER BATTLE GROUP	0 141	4 .0 €
2	1	AIR INTERDICTION	0. 117	8.2
3	3	ARMY GROUND	0. 104	
4	16	ATTACH SUPS	0.072	5 105
5	15	SCHEADE COMBATANTS	O 060	4 14
. 6	1.7	THEATER NUCLEAR WEARON	0.054	
7	€:	RAFID DEFLOY	0.051	3. 70c
8:	6	CAS	0 044	
9	14	ASM(LARD BATEL)	(- (4 3)	3 01.3
10	22	ALE SUPERIORITY (LAND B)	REED 0.041	2 910
11	15	ASW(SEA BASED)	Q QEB	2 311
12	23	AIR SUPERIORITY (SHIP B)		
13	21	AIR DEFENSE (SHIP PASED)	0.029	₾ 045
14	1 ①	STRATEGIC BOMBER	0.020	1 754
15	25	SPOR BASED WEAPOH(AIR)	DNTEL)0 020	1.411
1 €	29	ASAT(SPACE BASED)	0.013	
17	18	MINE WARFARE	0.013	
1 🕾	2	AMPHIBIOUS ASSAULT	0.011	0.757
19	1 3	SPECIAL OPERATIONS	0.010	
20	23	ASAT (LAND BAHED)	O. 0007	0.510
21	20	AIF DEFENSE (LAUT) BASED	$V = - Q \cdot Q \cdot V'$	0.27:
22	100	SHOE-BAGED WEARUN(LND)	• • • • • • • • • • • • • • • • • • • •	0/212
23	30	SPOE BASED WEAPON(SPA)	OMTRE 10 001	0.119
24	27	ABM(SPASE BASED)	<u>0.000</u>	$\mathcal{O} = \mathcal{O}(\mathcal{O}) \cdot t$
25	26	AFM(LANI) BASED)	ÇÇ ÇKAD	Car Cognition
26	24	INTERCEPTOR AIRCRAFT	O, OOO	0.000
27	11	SLAM	ο φφφ	$Q_1 \cdot Q_1Q_2A$
25	7	ICAN	ə. <u>0</u> əq	$Q \in C(\mathbb{R}^n)$
29	5	CIVIL DEFENSE	0, 000	O . OOO
30	4	CBW	0, 000	0.000

COMMODITY IMPORTANCE (LOC 3)

COBALT

~	
AIR INTERDICTION	5. 71
ARMY GROUND	4, 52
CAS	1.75
ICBM	0. 00
STRATEGIC BOMBER	1. 79
SLBM	0.00
ASW(SEA BASED)	1. 27
CARRIER BATTLE GROUP	10.00
SURFACE COMBATANTS	4, 25
AIR SUPERIORITY(LAND BASED)	2, 91
AIR SUPERIORITY(SHIP BASED)	2, 28
INTERCEPTOR AIRCHAFT	0.00
ASAT(LAND BASED)	0. 51
	34 99

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5.90
1.92
1.51
1.73
3.08
1.11
5 13
10.00
0, 8호
4, 25
2 91
2, 28
0, 00
Ø OO
41, 18

NICKEL

AIR SUPERIORITY(LAND BASED)

AIR SUPERIORITY(SHIP BASED)

INTERCEPTOR AIRCRAFT

ABM(LAND BASED)

AIR INTERDICTION	5, 60	
ARMY GROUND	4, 92	
CAS	1.72	
STRATEGIC BOMBER	1. 79	
ABW(BEA BASED)	1. 71	
ATTACK SUNS	5. 13 PYRETHRUM	
CARRIER BATTLE GROUP	10.00	
MINE WARFARE	O. 89 ARMY GROUND	2 61
SURFACE COMBATANTS	4, 25 CIVIL DEFENSE	i Çiri
AlR SUPERIORITY(LAND BASED)	2.91 ABW(SEA BASED)	Ç 14
AIR SUPERIORITY(SHIP BASED)	2 28 CARRIER BATTLE GROUP	10,00
INTERCEPTOR AIRCRAFT	O GO BURFACE COMBATANTS	Δ 💮 .
	41, 21	17,08

COMMODITY NORMALIZED IMPORTANCE FLUORSPAR ACID _____NICKEL 10.00 (7. 13 TIN 0. 76 FLUORSPAR ACID 9, 99 AIR INTERDICTION 9, 60 (AMPHIBIOUS ASSAULT 3.69 COBALT 8,49 ARMY GROUND 2. 05 PYRETHRUM CAS ICBM 0.00 STRATEGIC BOMBER 1. 79 SLBM 0.00 ASW(LAND BASED) 3, 08 ASW(SEA BASED) 1.63 CARRIER BATTLE GROUP 10.00 SURFACE COMBATANTS 4, 25

(

(

4.14

39, 57

2, 91

2, 23

0.00

0.00

COBALT		
A-10	CAS	7 2. 7336
COBRA	CAS	48 4991
F-4	ACF INTERPICTION	103, 5050
	CAS	7. 2734
F-16	AIR INTERBICTION	71, 8785
	CAS	40 4075
ART. ACRET	CAS	3, 6367
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION .	GS, 8144
F=15	AIR INTERDICTION	57, 5023
A-7	AIR INTERDICTION	51, 7525
F-14	AIR INTERDICTION	43. 1271
F-18	AIR INTERDICTION	71, 8785
SH-3	ASK(SEA BASED)	6, 0775
SH-2	ASW(SEA BASED)	15, 1937
SH-46B	ABW(SEA BABED)	23, 6343
S-3	ASW(SEA BASEIO)	34, 7284
	ASW(SEA BASED)	24, 1169
	ASW(SEA BASEI)	14, 4701
DSTROYERS	ASW(SEA BASED)	8, 6921
M-48	ARMY GROUNI	3 7 . ୭୫୫୭
M-60	ARMY GROUND	61,0182
M-1	ARMY GROUND	67. 7 √80
M-577 !	ARMY GROUND	0.2260
M-901	ARMY GROUND	54, 2384
M-1/M-3	ARMY GROUND	47, 4586
M-113	ARMY GROUND	5. 2732
MURG	ARMY GROUND	20, 3394
TOWED ART.	ARMY GROUND	27. 1192
SELF-PROP.	ARMY GROUND	36.1589
PERSHING	ARMY GROUND	18,0795
GLOMB	ARMY GROUND	30, 1324
INFANTRY	ARMY GROUND	7. 5331
	ARMY GROUND	36,9113
ROLES LNOH	ARMY GROUND	1,5820

	8, 6787																																
NORMALIZED VALUES F-111	F-16	F-4	A-10	@T-4	A -1	M-60	110	M-901	A-7	COBRA	M-M/M-M	F-14	A-6	M-A 0	MORTERS	SELF-PROP.	(O)	GLCMS	TOWED ART.	ATT, SUBS	SH-40B	MLRS	PERCHING	2 1. 5	FRIGATES	DSTROYERS	INFANTRY	61年6	RADIO RUNY	1	ART, ACRET	PCLES LNCH	

TIN		
A=10	CAS	72, 7336
COERA	CAS	64 6521
F-4	AIR INTERDICTION	103, 5050
	CAS	7, 2734
F-16	AIR INTERDICTION	71, 8785
	CAS	40 4075
ART. ACRET	CAS	3 6367
RADIO RLAY	AIR INTERDICTION	3, 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6 -	AIR INTERBICTION	43, 6560
F-15	AIR INTERDICTION	57, 5028
r -7	AIR INTERMICTION	51, 7525
F-14	AIR INTERDICTION	48, 5180
F-18	AIR INTERDICTION	80, 8833
SH~3	ASW(SEA BASED)	5. 2043
SH-2	ASW(SEA BASED)	13,0231
SH~60B	ASW(SEA BASED)	20, 2582
S-3	ASW(SEA BASED)	34, 7284
ATT. SUBS	ASW(SEA NASED)	14, 4701
	ASW(SEA BASED)	14, 4701
DSTROYERS	ASW(SEA BASED)	8. 6801
M-4%	APMY GROUND	4, 2185
M-60	ARMY GROUND	6. 7 798
M-1	AEMY GROUND	37, 6655
M-501	ARMY GROUND	0 0753
M-901	ARMY GROUND	6. 7 798
M-2/N-3	ARMY GEOUND	6 . 779台
M-113	ARMY GROUNT	0. 7583
MLRE	ARMY GROUND	10.1697
	ARMY GROUNI	4, 5199
SELF-PROP	ARMY GEOUND	6, 0245
PERSHING	ARMY GROUND	15, 8195
GLOMS	ARMY GROUND	26, 3659
INFANTRY	ARMY GROUND	60 2649
MORTERS	ARMY GROUND	5, 2732
HULES LNOH	ARMY GROUND	0, 2260

10,0000 8,6787 8,5622 6,2500 5,6216 4,9970 4,6579 0378 5658 2227 0, 5240 0, 4658 **4444** 0000 9112 1. 1184 1. 1184 1. 0066 0 7860 0. 6710 5240 5240 7500 3750 6842 4076 0,4403 4027 0.3493 0, 327.1 NORMALIZED VALUES SH-3 TOWED ART. POLES LNCH M-1913 M-60 SELF-PROP. RADIO RLAY FRIGATES ATT, SUBS SH-2 ART, ACRET DSTROYERS INFANTRY F-15 PERSHING M-2/M-3 M-901 MORTERS SH-60B A-10 COBRA F-111 M-1 S-3 GLCMS ©] 1--W F-16 F-13 MLRS F-14 M-40 F-4 6-6 A-7

NICKEL		
A-10	CAS	72, 7336
COBRA	CAS	48, 48°°
F-4	AIR INTERPLOTION	7 7. 6239
	CAS	5 4500
F-16	AIR INTERDICTION	71 8785
	CAS	40 4075
ART. ACRET	CAS	2, 4245
RADIO RLAY	AIR INTERDICTION	3 2345
	CAS	2, 7275
F-111	AIR INTERDICTION	129, 3813
A-6	AIR INTERDICTION	38, 8144
F-15	AIR INTERDICTION	57, 5028
A-7	AIR INTERDICTION	51, 7525
F-14	ATR INTERDICTION	48, 5100
F-18	AIR INTERDICTION	80, 8633
SH-3	ASV(SEA BASED)	6 9457
SH-2	ASW(SEA BASED)	17, 3642
SH-60B	ASW(SEA BASED)	27, 010-4
5- 3	ASW(SEA BASED)	34 7184
ATT. SUBS	ASW(SEA BASED)	43.4104
FRIGATES	ASW(SEA BASED)	26, 0463
DSTROYERS	ASW(SEA BASED)	15 6273
M-48	ARMY GROUND	42, 1854
M-60	ARMY GROUND	67. 79 80
M-1	AR'TY GROUND	75 3311
M-551	ARMY GROUND	0 7533
M-901	ARMY GROUND	47, 4586
M-2/M-3	ARMY GROUND	54, 2384
M-113	ARMY GROUND	5. 2732
MLRS	ARMY GROUND	20 3394
TOWED ART.	ARMY GROUND	36, 1589
SELF-PROP.	ARMY GROUND	48, 2119
PERSHING	ARMY GROUND	18, 0795
GLCMS	ARMY GROUND	22, 5993
INFANTRY	ARMY GROUND	37, 6555
MORTERS	ARMY GROUND	15, 8175
ROLES LNOH	ARMY GROUND	0. 2260
	- -	

					1, 2227 1, 2073 0, 5378 0, 4603 0, 4674 0, 1874 0, 0162
NORMALIZED VALUES F-111 F-16 F-4 F-18	M M M M M M M M M M M M M M M M M M M	M-2/M-3 A-7 F-14 COBRA SELF-PROP. M-901	ATT SUBS M-48 A-6 INFANTRY TOWED ART	S-3 SH-60B FRIGATES GLCMS MLRS FERSHING SH-2	MORTERS USTRUYERS SH-3 RADIO RLAY M-113 ARI, ACRET M-591 RULES LNCH

```
FLUORSPAR ACID
                                                    90. 9170
            CAS
A = 10
                                                    48 4591
            CAS
CORRA
                                                    129, 3813
            AIR INTERDICTION
F-4
                                                      9, 0917
            CAS
                                                     89 8491
            AIR INTERDICTION
F-16
                                                     50, 5094
            CAB
                                                      3, 6367
     ACRET CAS
ART.
                                                      3, 2345
RADIO RLAY AIR
                INTERDICTION
                                                      2, 7275
            CAS
                                                    161, 7265
            AIR INTERDICTION
F-111
                                                     48, 5180
            AIR INTERPICTION
A-6
                                                     71. 8785
            AIR INTERDICTION
F - 15
                                                     64, 6906
            AIR INTERDICTION
A--7
                                                     53, 9039
            AIR INTERDICTION
F-14
                                                     89, 8431
            AIR INTERDICTION
F-18
                                                      6 94:17
            ASM (SEA BASED)
SH-3
                                                     17 3642
            ASW(SEA BASED)
SH-2
                                                     33 7497
            ASM(SEA BASED)
SH-60B
                                                     43, 4104
            ASW(SEA BASEI)
5-3
                                                     28, 9403
            ASW(SEA BASED)
      SUBS
ATT.
                                                     20, 2582
            ASW(SEA BASED)
FRIGATES
                                                     12, 1549
            ASW(SEA BASED)
DSTROYERS
                                                      12, 6556
             ARMY GROUND
M-48
                                                     20, 3394
             ARMY GROUND
M-60
                                                      22. 5993
             ARMY GROUND
M--1
                                                      0. 2240
             ARMY GROUND
M-551
                                                      54, 2384
             ARMY GROUND
M-901
                                                      54 2384
             ARMY GROUND
M-2/M-3
                                                       6,0265
             ARMY GROUND
M-113
                                                      16, 9495
             ARMY GROUND
MLRS
                                                      22. 5993
             ARMY GROUND
 TOWED ART.
                                                      30, 1324
             ARMY GROUND
 SELF-PROP.
                                                      15, 8195
             ARMY GROUND
 PERSHING
                                                      26, 3659
             ARMY GROUND
 GLCMS
                                                      60, 2649
 INFANTRY
             ARMY GROUND
                                                      26, 3659
 MORTERS
             ARMY GROUND
                                                       0, 2260
 ROLES LNCH ARMY GROUND
```

4444 7265 3537 3537 3537 3537 0000 9982 6977 8630 6303 6303 6303 6303 7890 0737 0737 0737 6216 5556 100V ACRET FLAY ART. CSTROYERS SUBS SELF-PROP FRIGATES INFANTRY PERSHING MORTERS M-2/M-SH-60R PCLES 1 TOWED A-6 COBRA GLCMS SADIO 1-113 M-901 FLIS M-60 MLFS SH-2 M-40 ATT. (*) (*)

NORMALIZED VALUES

PYRETHRUM	
ATT. SUBS	ASW(SEA PASED)
M-48	ARMY GROUND
M-60	ARMY GROUND
M-113	ARMY GROUND
TOWER AFT.	ARMY GRIUNI:
SELF-PRUP.	ARMY BRUJED
INFANTRY	ARMY GROUND
MORTERS	ARMY BROUND

14	4701
29	$52^{\circ}e$
47.	4086
5.	2732
31.	6 390
42	1854
75.	3311
36	9112

NORMALIZED VALUES

INFANTRY	10, 0000
M60	6 . 3000
SELF-PROP.	5 . 6000
MORTERS	4, 9000
TONED ART.	4, 2000
M-4⊜	3, 9200
ATT. SUBS	1, 9209
M-113	0, 7000

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ALL COMMODITIES
A-10
            CAS
                                                     3,0912
COLEA
            CAS
                                                       1012
F-4
            AIR INTERDICTION
                                                     4, 1402
            CAS
                                                     0.2909
F-16
            AIR INTEFDICTION
                                                     3, 0548
            CAS
                                                       7173
ART. ACRET CAE
                                                     0.1333
                                                     0.1294
RADIO RLAY AIR INTERDICTION
                                                     0.1091
            CAE
F-111
                                                       4987
            AIF
                INTERDICTION
4-6
            AIR
                INTERDICTION
                                                     1.6981
F-15
            AIR INTERDICTION
                                                     2,4439
            AIR INTERPICTION
A-7
                                                       1995
F-14
            AIR INTERDICTION
                                                     1. 9407
                                                     3 2345
F-18
            AIR INTERDICTION
            ASW(SEA BAGED)
                                                       2513
SH-3
                                                     0.6295
SH-2
            ASW(SEA BASED)
            ASW(SEA BASED)
                                                     1 0463
SH-60B
9-3
            ASW(SEA BASED)
                                                      1.4760
            ASW(SEA BASED)
                                                     1, 2541
ATT. SUBS
FRIGATES
            ASW(SEA BASED)
                                                     0.7524
DSTROYERS
            ASW(SEA BASED)
                                                     0.4515
M-48
            ARMY GROUND
                                                     1, 2658
                                                     2, 000
M-60
            ARMY GROUND
M-1
            ARMY GROUND
                                                      2, 0339
M-551
            ARMY GROUND
                                                     0.0128
M-901
            ARMY GROUND
                                                     1.6272
                                                     1. 6272
0. 2260
            ARMY GROUND
M-2/M-3
M-113
            ARMY GROUND
MLR3
            ARMY GROUND
                                                     0. 6760
TOWED ART.
            ARMY GROUND
                                                      1, 2204
SELF-PROP.
                                                      1. 6272
            ARMY GROUND
PERSHING
            ARMY GROUND
                                                      0. 6780
            ARMY GROUND
GLOMS
                                                      1. 0546
INFANTRY
            ARMY GROUND
                                                      2.4106
MORTERS
            ARMY GROUND
                                                      1. 2128
ROLES LNOH ARMY GROUND
                                                      0.0226
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38839 00000 82133 69883 69883 90882 90882 90882 9180 9180 9180 1447 4007 4110 0585 8824 6216 4444 NORMALIZED VALUES RADIO RLAY M-113 HOMI SETTE SELF-PROP. M-2/M-3 M-901 ACHET SUBS DSTROYERS F-15 INFANTRY TOWED ART PERSHING MORTERS FRIGATE SH-60B GLCMS F-18 MLRS SH-2 F-14

CRITICALITY OF SHORTFALL

ALL FE S (LOC S)

COMMODITY	GOAL (UM) TSN	PILE (UNITE)	SHURT FALL (%)	TRANS-			NORMALIZED FEZBHRTFALL FILL FULL
COBALT	80 4	43.8	-49. 7	401 5		3418 1	
TIN	4 2. 0	190 6	3 53.8	Q . Q	10.0	O. O	$\phi \cdot \phi$
/ HICKEL	200. 0	32. 2	-83. 9	437. 7	10.0	4377.1	10.0
LUORSPAR ACID	1400. Q	୫୧୭, ୧	-36 I	ଓଡ଼ିଆ ମ	ව්. එ	3744 3	\$ &
FYRETHRUM	500. o	O. O	-100. O	45 3 8	4. 1	1830.7	4 1

COMPOSITE IMPORTANCE (LOC 3)

COSALT

	AMOUNT	% OF	COMPOSITE		
JOURCE	SUPPLIED	TOTAL	IMPORTANCE	1701	%(1/01)
FINLAND	1350.	6.43	1. 92	0. 520	3 343
10 R 0000	45 0.	2.14	1.50	0. 667	1 41
, CTSWANNA	250	1. 19	0.71	1.404	1 671
SOUTH AFRICA	150	0.71	1. 19	0.841	0.601
7AIRE	12500.	59, 52	0. 71	1.404	영영 54 왕
HILIPPINES	50	0. 24	0, 92	1.097	0^{-27-2}
HUSTRALIA	400.	1.90	0.92	1.087	2 070
NEW CALEDÓNIA	250.	1. 19	0. 92	1, 087	1, 293
- ANADA	1100.	5. 24	2, 89	O. 346	1,813
B 9	45 00.	21, 43	2, 56	0.391	B. 명원4

TOTAL: 21000. 100.00

COMPOSITE IMPORTANCE (LOC 3)

TIN

	AMOUNT	% QF	COMPOSITE		
SOURCE	SUPPLIED	TOTAL	IMPORTANCE	1/01	%(1/CI)
TUSTRALIA	100.	0.15	0. 92	1.087	0 161
\$	16100.	23, 82	2, 56	0.391	9, 319
IHAILANI	5 900.	8. 73	0. 92	1. 087	9, 483
INDONESIA	5800.	8. 3 8	0. 92	1. 087	9, 322
* K	100.	0. 15	1. 96	0.510	0.075
LOLIVIA	10300.	15, 24	0. 98	1. 020	15, 548
BRAZIL	2400.	3. 5 5	0.86	1. 162	4, 125
RC	3000.	4. 44	2. 47	0. 405	1. 796
ALAYSIA	23900.	35, 36	0. 92	1. 087	38. 414
TOTAL:	67600.	100.00			

COMPOSITE IMPORTANCE (LOC 3)

NICKEL

	AMOUNT	% OF	COMPOSITE		
MOURCE MINLAND	S WEN IEN	hid Ali	11+0F1AN(+	1/01	7.61.75
■ 1464 0	1006	0 03	1. ≅2	0. 520	· 1 - ·
SOUTH AFRICA	500 0 .	1.64	1. 19	0.841	1 381
PHILIPPINES	5000.	1.64	0. 92	1.087	1 780
⊝USTRALIA	2 5000.	8/21	0. 92	1.087	ရှိ ခဲ့ချိန်
'CARADA	150000.	4의 2의	2, 89	0.344	17 054
u s ■reece	88000	ପୁର ହା	2.56	୦.୧୭.	11 21
REECE	600.	0. 20	1.96	0.510	0.101
JETHERLANDS	200.	0. 07	1.96	0.010	A CTS
FRe	100.	0.03	1.96	0.510	0.017
. UGGBLAVIA	5 00.	0.16	1.96	0.540	$\hat{\phi}_{i}$ $\hat{\phi}_{i}$
95R	5000.	1.64	Q	1.061	: -4-
DOM REPUB.	15000.	4, 93	1 53	0. 656	3 295
RUSTAMALA	4000.	1. 3i	1 53	0. 656	0.8.1
NIUNESIA	5000,	1.64	0. 92	1.0.7	1.763
•					

TOTAL: 304400, 100,00

COMPOSITE IMPORTANCE

(L00 3)

FLUORSPAR ACID

SOUTH AFRICA TO S TALY SEAIN AFT AFRICA HAILAND MEXICO	;	AMDUNT SUPFLIED 180 70 40. 100. 25. 15. 350.	% OF TOTAL 22, 36 8, 70 8, 07 12, 42 3, 11 1, 86 43, 48	COMPOSITE IMPORTANCE 1. 19 2. 56 1. 96 1. 96 0. 71 0. 92 2. 56	1/CI 0.841 0.391 0.510 0.510 1.404 1.087 0.391	%(1/(1) 18 808 8 4 2 4 120 6 838 4 119 2 020 17 011
	TOTAL:	805.	100 00			

COMPOSITE IMPORTANCE (LOC 3)

PYRETHRUM

•.*					
TANZANIA	78000.	39. 4 9	0. 71	1. 404	5 5. 430
WANDA	25 000.	12, 66	0. 71	1.404	17.767
ENYA	80000.	40. 51	0. 71	1. 404	5 6, 870
UF:	11000.	5. 57	1. 96	0. 510	2,842
MUSTRALIA	1500.	0. 76	0. 92	1. 087	0, 825
OUTH AFRICA	2000.	1. 01	1. 19	0.841	0.852
SOURCE	AMOUNT SUPPLIED	% OF TOTAL	COMPOSITE IMPORTANCE	1/01	%(1/01)
	AMOUNT	% OF	COMPOSITE		

TOTAL: 197500. 100.00

SOURCE IMPORTANCE (LOC S)

909-80	ΞĒ		Itile Itile				'AL	NORMALIT	
SOUTH ZAIRE PHILI AUSTE	CO NANNA H AFRICA E IPPINES RALIA CALEDONIA	1. 0. 8% 0. 2. 1. 1	341 414 471 601 548 676 273 817 884	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	81 81 81 81 81 81 81	16. 10	16 05 69 43 02 16 16	1, 71 2, 00 0, 72 100, 00 0, 31 2, 40 1, 50 2, 17	
AUSTE U S THAIL INDOF UK • BOLIN BRAZ: PPC MALA	LAND NESTA VIA IL	9. 9. 0. 17. 4. 1	161 319 483 322 075 549 125 796 414	0 4 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00 00	0. 0. 0. 0. 0. 0.	00 00 00 00 00 00 00	0, 00 0, 00 0, 00 0, 00 0, 00 0, 00 0, 00	: :
FHIL AUSTR CANALU S GREEN NETH FRG YUGOTUSSR DOM GUATO	R AFRICA IPPINES RALIA DA	1. 1. 8. 17. 11. 0. 0. 0. 1. 3. 0.	171 381 795 924 654 611 101 634 617 684 742 236 861 785	10. (10. (10. (10. (10. (10. (10. (10. (00 00 00 00 00 00 00 00 00	13. 17. 89. 170. 113. 1 0 0. 17. 32. 8	85 24 54 11 01 34 17 84 42 30	2. 74 2. 74 13. 68 24. 14 17. 34 0. 03 0. 03 0. 13 4. 90 1. 32	
U S ITAL' SPAII	H AFRICA Y N AFRICA LAND /	3. 4. 6. 4. 2.	803 402 120 338 359 025 011	8. 8. 8. 8. 8.	55 55 55 55 55 55 55	35. 54.	10 24 22 29 32	4, 46 5, 40 8, 91 5, 7 2 2, 63)) ? }
	H AFRICA RALIA A DA	0. 2. 56. 17.	852 825 842 855 767 433	4. 4. 4.	30 30 30 30 30 30	12. 244.	55 21 29 34	0, 54 1, 87 37, 44 11, 70	} 7

SOURCE IMPORTANCE RANKED BY SOURCE (LOC 3)

1 241RE COMALT 100 00.	#	SOURCE	COMMODITY	VALUE
2			CORALT	100 00]
3 TANZANIA PYRETHRUM 36.51 4 CANADA NICKEL 26.14 5 SOUTH AFRICA FLUORSFAR ACII 24.65 6 MEXICO FLUORSFAR ACII 22.30 17 U.S. 1 NICKEL 17.34 8 AUSTRALIA NICKEL 13.60 9 BMANDA PYRETHRUM 11.70 10 U.S. 100BALT 10.04 1 SPAIN FIREA FLUORSPAR ACII 19.31 12 EAST AFRICA FLUORSPAR ACII 19.31 12 EAST AFRICA FLUORSPAR ACII 19.31 13 ITALY FLUORSPAR ACII 19.30 14 DOM. REPUB. NICKEL 4.91 15 U.S. FLUORSPAR ACII 44.61 15 U.S. FLUORSPAR ACII 44.61 16 PINLAND 00BALT 40.01 17 INDONESIA NICKEL 2.74 19 USSR NICKEL 2.74 19 USSR NICKEL 2.74 20 THAILAND FLUORSPAS ACII 2.45 10 LOSSR NICKEL 2.75 21 AUSTRALIA COESALT 2.45 22 CANADA COESALT 2.17 23 SOUTH AFRICA NICKEL 2.12 24 BOTSWANNA COESALT 2.17 25 UK FYRETHRUM 1.87 26 MOROCCO COESALT 1.71 27 NEW CALEDONIA COESALT 1.71 28 GUETAMALA NICKEL 1.37 29 SOUTH AFRICA COESALT 1.71 20 SOUTH AFRICA NICKEL 1.37 21 NEW CALEDONIA COESALT 1.71 22 SOUTH AFRICA NICKEL 1.37 23 FINLAND NICKEL 1.37 24 HOROCCO COESALT 1.71 25 US SOUTH AFRICA PYRETHRUM 0.54 26 GUETAMALA NICKEL 1.37 27 NEW CALEDONIA COESALT 0.72 28 GUETAMALA NICKEL 1.37 29 FOR COESALT 0.72 30 SOUTH AFRICA PYRETHRUM 0.54 31 AUSTRALIA PYRETHRUM 0.54 32 PHILIPPINES COESALT 0.72 33 FINLAND NICKEL 0.03 34 GREECE NICKEL 0.05 37 FRG NICKEL 0.05 37 FRG NICKEL 0.05 37 FRG NICKEL 0.05 38 MALAYSIA TIN 0.000 40 BRAZIL TIN 0.000 41 BOLIVIA TIN 0.000 43 INDONESIA TIN 0.000 44 THAILAND TIN 0.000				27. 4 4 ·
24 CANADIA			PYRETHRUM	36, 51
5 SOUTH AFRICA	. 4	CANADIA	NICKEL .	26, 14
### MEXICO FLUGREFAR ACT 22 90	- 5		FLUORSFAR ACII	24, 65
**************************************			FLUORSFAR ACID	22 30
8 AUSTRALIA NIO EL 13 68 9 RWANDA PYRETHRUM 11 70 10 U S COBALT 10 00 11 SFAIN FLUCRSPAR ACID 5 71 12 EAST AFRICA FLUCRSPAR ACID 5 71 13 ITALY FLUCRSPAR ACID 5 40 14 BOM. REPUE NIOCEL 4 80 15 U S FLUCRSPAR ACID 4 46 16 FINLAND COBALT 4 90 17 INDONESIA NICKEL 2 74 18 PHILIPPINES NICKEL 2 74 19 USR NICKEL 2 67 10 AUSTRALIA COBALT 2 60 11 AUSTRALIA COBALT 2 60 12 CANADA COBALT 2 60 13 SOUTH AFRICA NICKEL 2 12 14 BOTSMANNA COBALT 2 12 15 UK PYRETHRUM 1 87 16 GUATAMALA NICKEL 1 1 87 17 NEW CALEDONIA COBALT 1 55 18 GUATAMALA NICKEL 1 1 87 19 SOUTH AFRICA PYRETHRUM 0 54 29 SOUTH AFRICA PYRETHRUM 0 54 21 AUSTRALIA PYRETHRUM 0 54 22 PINLAND NICKEL 0 26 33 FINLAND NICKEL 0 26 34 AUSTRALIA PYRETHRUM 0 54 25 AUSTRALIA PYRETHRUM 0 54 26 ARECCE NICKEL 0 15 37 FRG NICKEL 0 15 38 MALAYSIA NICKEL 0 15 39 PRC TIN 0 00 40 BRAZIL TIN 0 00 41 BOLIVIA TIN 0 00 43 INDONESIA TIN 0 00 44 THALLAND TIN 0 00 45 U S TIN 0 00 45 U S TIN 0 00				17. 34
9 RWANDA	_		NICEEL	13 63
SPAIN			FYRETHRUM	
PAST AFRICA	10	បទ	COBALT	
13	. 1.	SEARN	FLUCBSMAR ACII	
13	-2	EASY AFRICA	FUMORSFAR ACID	
15		ITALY	FLUORSPAR ACID	5.40
14 FINLAND COBALT 4 00 17 INDONESIA NICKEL 2 74 8 PHILIPFINES NICKEL 2 67 19 ULER NICKEL 2 67 20 THAILAND FLUDDSPAF ACIP 2 67 11 AUSTRALIA COBALT 2 48 12 CANANA COBALT 2 12 23 SOUTH AFRICA NICKEL 2 12 24 BOTSWANNA COBALT 2 60 25 UK PYRETHRUM 1 87 26 MOROCCO COBALT 1 71 27 NEW CALEDONIA COBALT 1 87 28 GUATAMALA NICKEL 1 87 29 SOUTH AFRICA COBALT 0 72 30 SOUTH AFRICA COBALT 0 72 30 SOUTH AFRICA PYRETHRUM 0 54 31 AUSTRALIA PYRETHRUM 0 54 32 PHILIPPINES COBALT 0 31 33 FINLAND NICKEL 0 13 34 GREECE NICKEL 0 15 35 YUGOSLAVIA NICKEL 0 15 36 NETHERLANDS NICKEL 0 05 37 FRG NICKEL 0 07 39 PRC TIN 0 00 40 BRAZIL TIN 0 00 41 BOLIVIA TIN 0 00 42 UK TIN 0 00 43 INDONESIA TIN 0 00 44 THAILAND TIN 0 00 45 U S TIN 0 00 45 U S TIN 0 00 46 U S TIN 0 00 47 THAILAND TIN 0 00 48 U S TIN 0 00 49 U S TIN 0 00 40 U S TIN 0 00 41 HAILAND TIN 0 00 42 UK TIN 0 00 44 THAILAND TIN 0 00 45 U S TIN 0 00 46 THERLANDS TIN 0 00 47 THAILAND TIN 0 00 48 U S TIN 0 00 49 U S TIN 0 00 40 U S TIN 0 00 40 U S TIN 0 00 41 HAILAND TIN 0 00 42 UK TIN 0 00 43 U D S TIN 0 00 44 THAILAND TIN 0 00 45 U S TIN 0 00 46 THERLANDS TIN 0 00 47 THAILAND TIN 0 00 48 U S TIN 0 00 49 U S TIN 0 00 40 U S TIN 0 00 40 U S TIN 0 00 41 THAILAND TIN 0 00 42 UK TIN 0 00 44 THAILAND TIN 0 00 45 U S TIN 0 00 46 U S TIN 0 00 47 THAILAND TIN 0 00 48 U S TIN 0 00 49 U S TIN 0 00 40 U S TIN 0 00 40 U S TIN 0 00 41 U S TIN 0 00 42 UK TIN 0 00 44 THAILAND TIN 0 00 45 U S TINLES TINLES TINLES TINLES TINLES TINLES TINLES	4	DOM. REPUB.	NICHEL	4. 5.7
14	.5	ប្ទ	FLUORSPAR ACID	4 46
8		FINLAND	COBALT	4,00
19	. 17	INDONESIA	NICKEL	2. 74
19	8	PHILIPPINES	NICKEL	2 /4
20 THAILAND	119		NICKEL	
12 CANADIA COBALT 2.17 23 SOUTH AFRICA NICHEL 2.12 24 BOTSWANNA COBALT 2.60 25 UK EYRETHBUM 1.87 26 MOROCCO COBALT 1.71 27 NEW CALEBONIA COBALT 1.55 28 GUATAMALA NICHEL 1.87 29 SOUTH AFRICA COBALT 0.72 30 SOUTH AFRICA PYRETHBUM 0.54 31 AUSTRALIA PYRETHBUM 0.54 32 PHILIPPINES COBALT 0.31 33 FINLAND NICKEL 0.26 34 GREECE NICKEL 0.15 35 YUGOSLAVIA NICKEL 0.15 36 NETHERLANDS NICKEL 0.05 37 FRG NICKEL 0.05 38 MALAYSIA TIN 0.00 40 BRAZIL TIN 0.00 40 BRAZIL TIN 0.00 41 BOLIVIA TIN 0.00 42 UK TIN 0.00 43 INDONESIA TIN 0.00 44 THAILAND TIN 0.00 45 U S TIN 0.00 45 U S TIN 0.00 46 THAILAND TIN 0.00 47 THAILAND TIN 0.00 48 U S TIN 0.00 49 U S TIN 0.00 40 U S TIN 0.00 40 U S TIN 0.00 41 THAILAND TIN 0.00 42 U S TIN 0.00 44 THAILAND TIN 0.00 45 U S TIN 0.00 46 U S TIN 0.00 47 U S TIN 0.00 48 U S TIN 0.00 49 U S TIN 0.00 40 U S TIN 0.00 40 U S TIN 0.00 41 THAILAND TIN 0.00 42 U S TIN 0.00 44 THAILAND TIN 0.00 45 U S TIN 0.00	20	THAILAND	FLUORSPAF ACIP	
23 SOUTH AFRICA NICKEL 2.12 74 BOTSWANNA CORALT 2.00 25 UK PYRETHRUM 1.87 26 MOROCCO COBALT 1.71 27 NEW CALEDONIA COBALT 1.55 38 GUATAMALA NICKEL 1.87 29 SOUTH AFRICA COBALT 0.72 30 SOUTH AFRICA PYRETHRUM 0.54 31 AUSTRALIA PYRETHRUM 0.54 32 PHILIPPINES COBALT 0.31 33 FINLAND NICKEL 0.26 34 GREECE NICKEL 0.15 35 YUGOSLAVIA NICKEL 0.15 36 NETHERLANDS NICKEL 0.05 37 FRG NICKEL 0.05 37 FRG NICKEL 0.03 38 MALAYSIA TIN 0.00 40 BRAZIL TIN 0.00 40 BRAZIL TIN 0.00 41 BOLIVIA TIN 0.00 42 UK TIN 0.00 43 INDONESIA TIN 0.00 44 THAILAND TIN 0.00 45 U S TIN 0.00	11	AUSTRALIA	COMMET	
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